

# ROBUS IN-LINE HELICAL GEARBOX





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Technical characteristics  
ROBUS 25-60 pag. 2-3



Technical characteristics  
ROBUS-A pag. 4-5



List of components ROBUS25-60-2  
(2 reduction stages) pag. 6-7



List of components ROBUS25-60-3  
(3 reduction stages) pag. 8-9



List of components  
ROBUSA-2 and ROBUSA-3 pag. 10-11



Code system pag. 12

Lubrication pag. 13



Technical data pag. 14-15



Pmax kW pag. 16-17



Pmax kW pag. 18

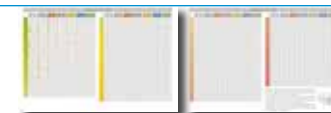
Configurator pag. 19



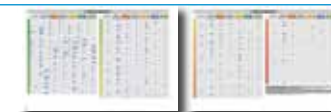
Performance table pag. 20-49



Backlash Max (Deg) pag. 50-51



Moment of inertia pag. 52-53



Weights pag. 54

Dimensions pag. 55



Dimensions pag. 56-57

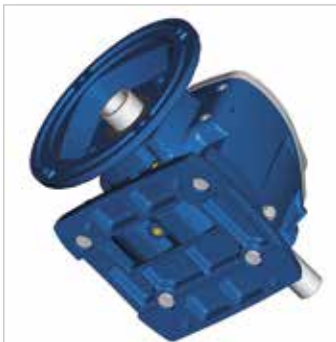


Robus EX series  
Also motive itself is ATEX pag. 58

Terms of sale and guarantee pag. 59



## ROBUS 25-60 TECHNICAL CHARACTERISTICS



Uniquely contoured, rigid, precise, monobloc, cast iron Body, Base and Flange ensure extreme robustness.



Except version A, all Robus sizes have a screw-on lifting eyebolt

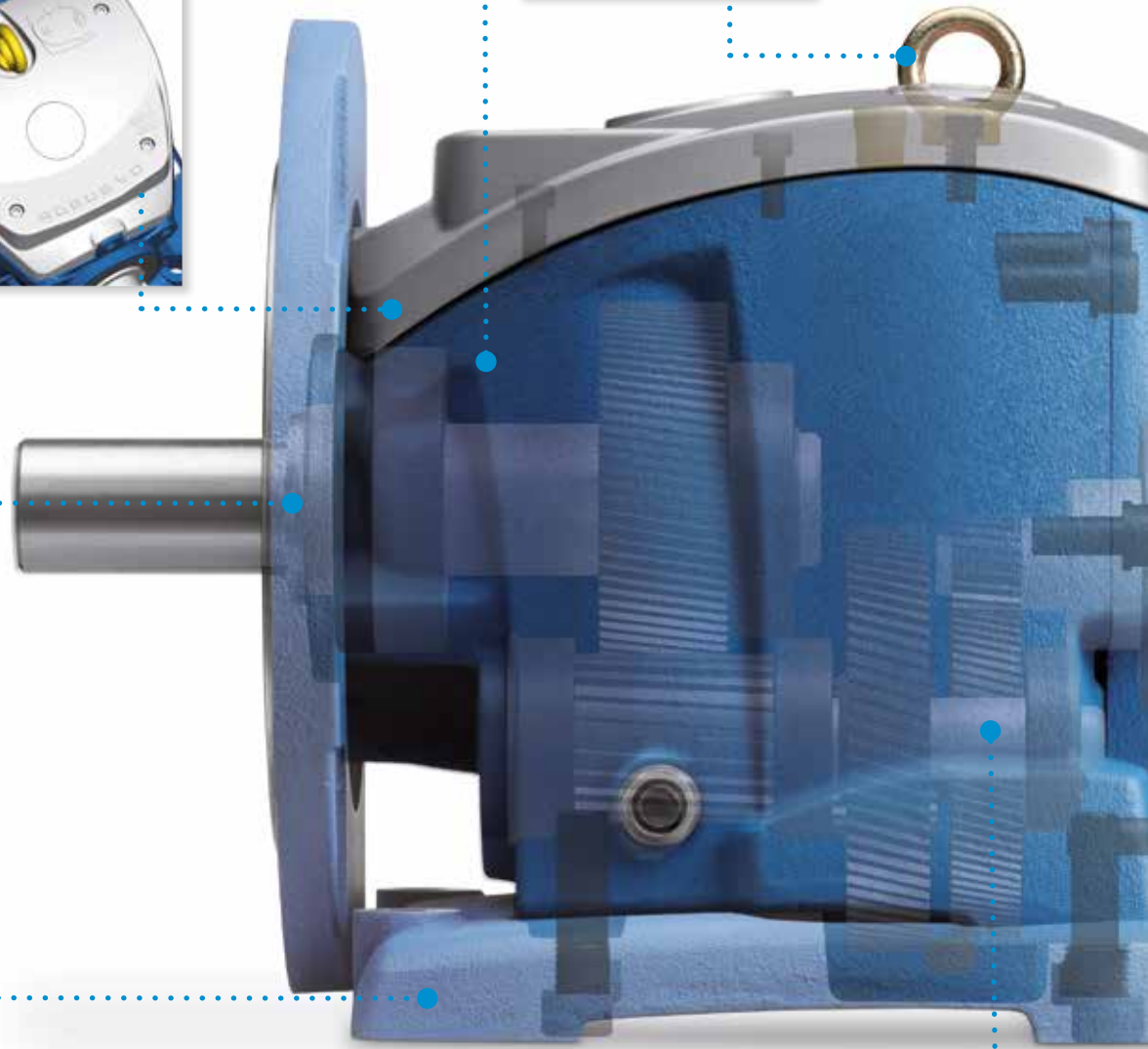
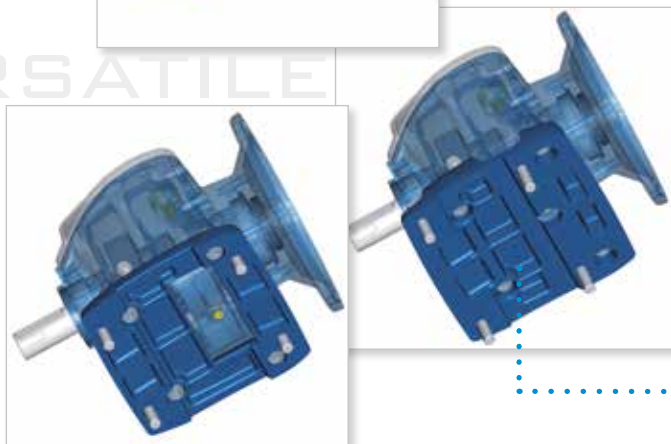


Modular design with detachable output flange and foot base allows easy and quick conversion between foot and flange mounting



VERSATILE

Various detachable foot bases in solid cast iron make Robus interchangeable with any other gearbox brand





Easy to examine and maintain.

Minimum maintenance requirement.  
All sizes are supplied with long-life synthetic oil.



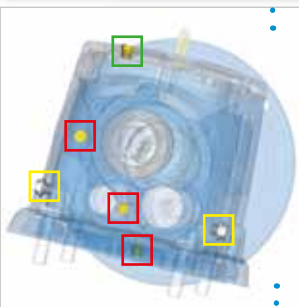
IEC flange and hollow shaft.

Choice of hollow input flanges permits direct mounting of any standard motor



Unique construction of Robus makes it possible to mount any size in any position.  
This flexibility is achieved by:

+ ZZ autolubricating bearings on input and output shaft



6 interchangeable plugs, including one breather plug and a level plug  
Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox

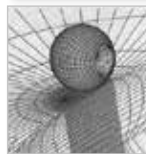


+ mechanical parts locked in their positions by snap rings and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings

## ENGINEERED FOR HIGHER RELIABILITY



Use of high strength steels and case hardening to  $58 \pm 2$  HRC reduce the wear rate in wheels.  
All wheels are profile ground to Din 3962 class 6 accuracy for low noise, high efficiency and optimized backlash.



The surface is exposed to a bombardment of micro-spheres that induces compression and increases further the fatigue resistance.



Shafts are made from 42CrMo4 steel and tempered to reach a hardness of 23-35 HRC, thus increasing their capacity to withstand shearing stresses.



If the mechanical robustness and the service factor of an helical gearbox are mainly influenced by the centres distance of the last stage, Robus confirms to be very robust (see "X2" at page 54).



Single stages ratios between 2 and 6, together with proper gears sizes, result mathematically in higher teeth number and size (module) of each wheel and a better fractioned load among the reduction stages. That influences both durability and torque transmission capability.



Dual bearing support on the input shaft assures precise alignment of the first stage gears and reduces vibrations and consequent gear wear.



Intermediate shaft is rigidly supported by 3 bearings, with no overhang wheel, thus imparting greater flexural strength and better meshing. This increases the overloading capacity and takes to lower noise.



Smaller overhang distance of output shaft from supporting bearing in order to withstand higher radial loads.



Abounding bearings size, in order to withstand higher loads.

## ROBUS-A TECHNICAL CHARACTERISTICS



Main body of a single piece of aluminum, for an optimal compromise between weight, rigidity and precision

ROBUST



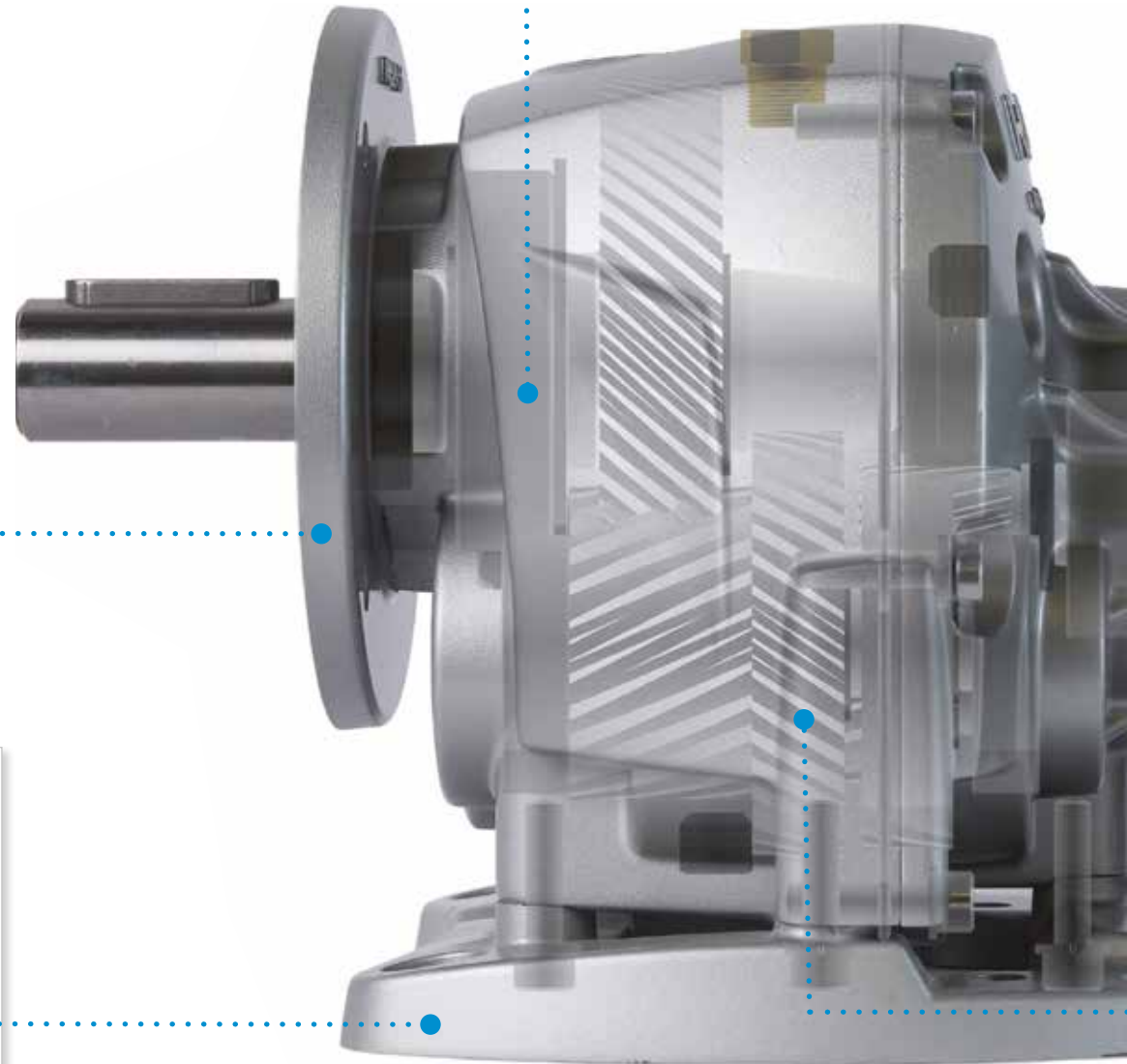
Modular design with detachable output flange and foot base allows easy and quick conversion between foot and flange mounting



VERSATILE



A removable base, with several fixing holes, makes ROBUST-A interchangeable with most of the gearboxes brands





FLEXIBLE MOUNTING



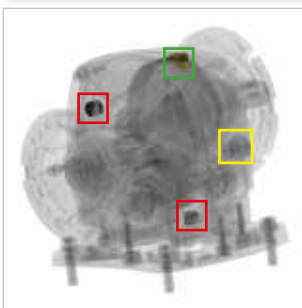
IEC flange and hollow shaft.

Choice of hollow input flanges permits direct mounting of any standard motor



Unique construction of Robus-A makes it possible to mount any size in any position. This flexibility is achieved by:

+ ZZ autolubricating bearings on input and output shaft



+ 4 interchangeable plugs, including one breather plug and a level plug  
Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox

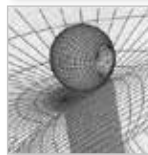


+ mechanical parts locked in their positions by snap rings and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings

ENGINEERED FOR HIGHER RELIABILITY



Use of high strength steels and case hardening to  $58 \pm 2$  HRC reduce the wear rate in wheels. All wheels are profile ground to Din 3962 class 6 accuracy for lower noise, higher efficiency and optimized backlash.



The surface is exposed to a bombardment of micro-spheres that induces compression and increases further the fatigue resistance.



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If the mechanical robustness and the service factor of an helical gearbox are mainly influenced by the centres distance of the last stage, Robus-A confirms to be very robust (see "X2" at page 54).



Single stages ratios between 2 and 6, together with proper gears sizes, result mathematically in higher teeth number and size (module) of each wheel and a better fractioned load among the reduction stages. That influences both durability and torque transmission capability.



Dual bearing support on the input shaft assures precise alignment of the first stage gears and reduces vibrations and consequent gear wear.



Intermediate shaft is with no overhang wheel, thus imparting greater flexural strength and better meshing. This increases the overloading capacity and takes to lower noise.

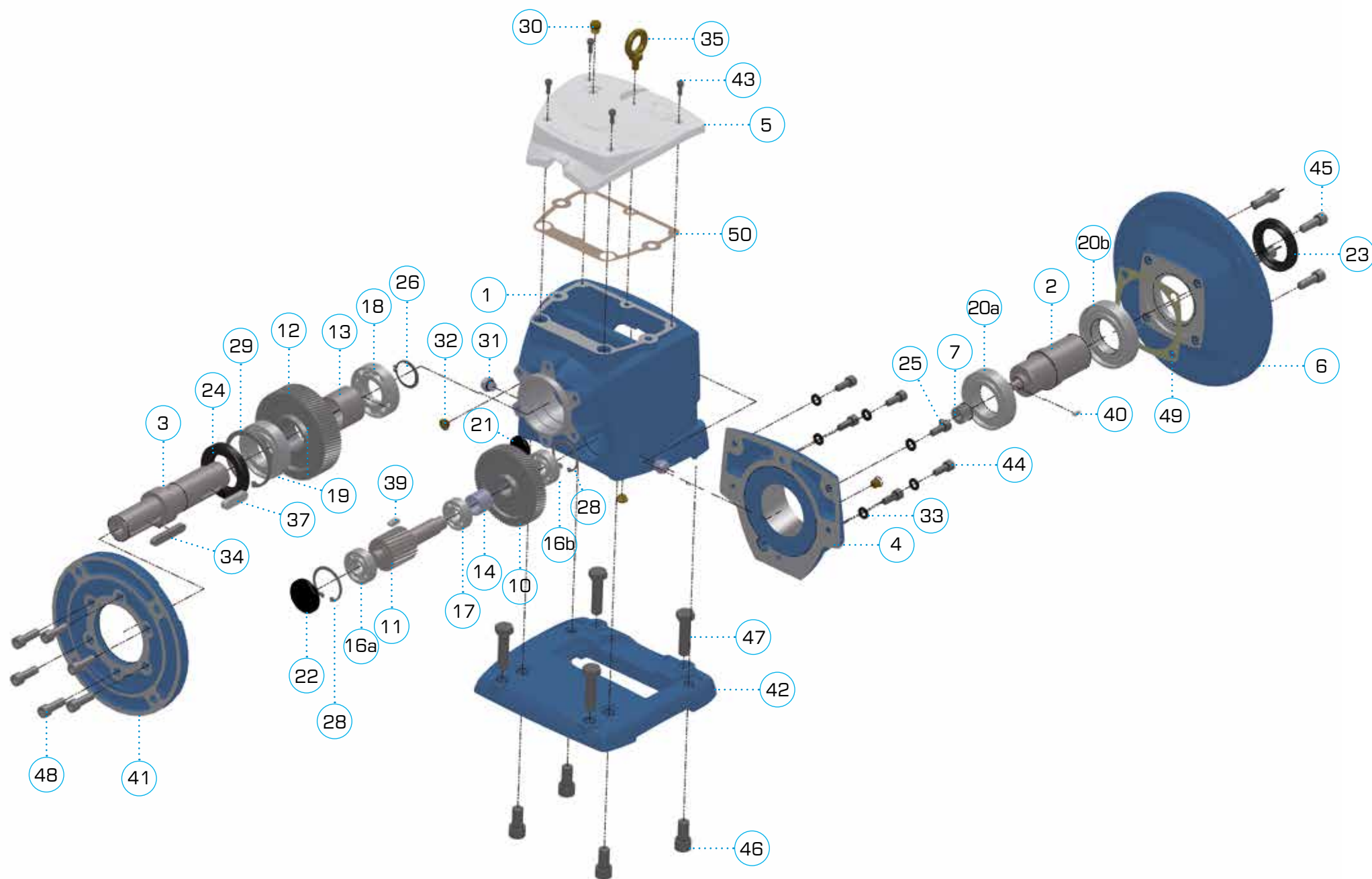


Smaller overhang distance of output shaft from supporting bearing in order to withstand higher radial loads.



Abounding bearings size, in order to withstand higher loads.

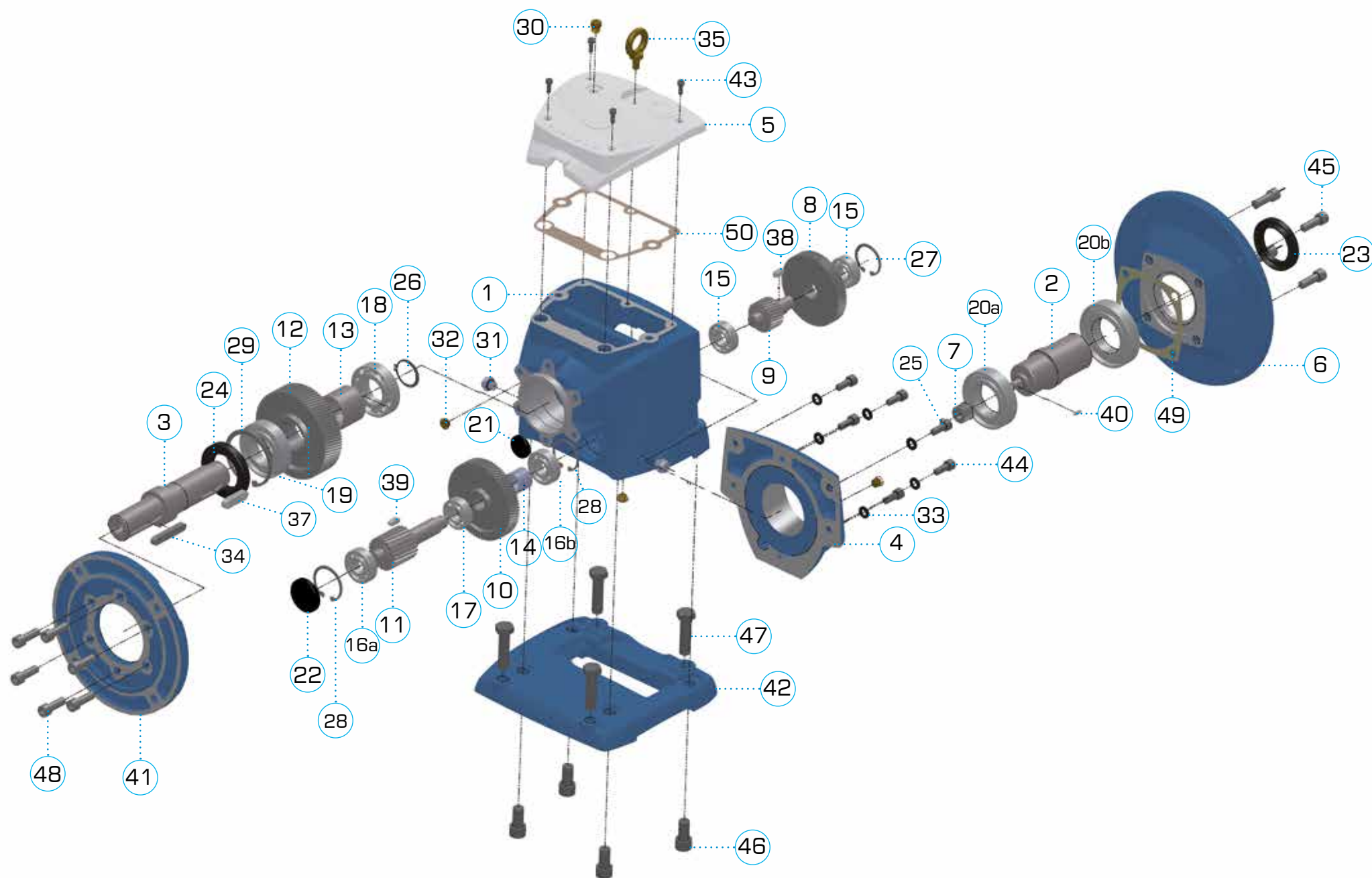
# LIST OF COMPONENTS ROBUS 25-60 2 (2 REDUCTION STAGES)



# LIST OF COMPONENTS ROBUS 25-60 2 (2 REDUCTION STAGES)

|      |      | ROBUS25-2         |      | ROBUS30-2         |      | ROBUS35-2         |      | ROBUS40-2         |      | ROBUS50-2          |      | ROBUS60-2          |      |
|------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|--------------------|------|--------------------|------|
| item | code | description       | q.ty | description       | q.ty | description       | q.ty | description       | q.ty | description        | q.ty | description        | q.ty |
| 1    | HOU  | housing           | 1    | housing           | 1    | housing           | 1    | housing           | 1    | housing            | 1    | housing            | 1    |
| 2    | ISH  | input shaft       | 1    | input shaft       | 1    | input shaft       | 1    | input shaft       | 1    | input shaft        | 1    | input shaft        | 1    |
| 3    | OSH  | output shaft      | 1    | output shaft      | 1    | output shaft      | 1    | output shaft      | 1    | output shaft       | 1    | output shaft       | 1    |
|      |      | D25xL50           |      | D30xL60           |      | D35xL70           |      | D40xL80           |      | D50xL100           |      | D60xL120           |      |
|      |      | D30xL60           |      | D35xL70           |      | D40xL80           |      | D50xL100          |      | D60xL120           |      | D70xL140           |      |
| 4    | ICV  | input cover       | 1    | input cover       | 1    | input cover       | 1    | input cover       | 1    | input cover        | 1    | input cover        | 1    |
| 5    | TCV  | top cover         | 1    | top cover         | 1    | top cover         | 1    | top cover         | 1    | top cover          | 1    | top cover          | 1    |
| 6    | IFL  | input flange      | 1    | input flange      | 1    | input flange      | 1    | input flange      | 1    | input flange       | 1    | input flange       | 1    |
|      |      | 63B5              |      | 71                |      | 71                |      | 80                |      | 90                 |      | 100/112            |      |
|      |      | 71B5              |      | 80                |      | 80                |      | 90                |      | 100/112            |      | 132                |      |
|      |      | 80B5              |      | 90                |      | 90                |      | 100/112           |      | 132                |      | 160                |      |
|      |      | 90B5              |      | 100/112           |      | 100/112           |      | 132               |      | 160                |      | 180                |      |
|      |      | 100/112           |      |                   |      |                   |      |                   |      |                    |      | 200                |      |
| 7    | P1   | pinion 1          | 1    | pinion 1          | 1    | pinion 1          | 1    | pinion 1          | 1    | pinion 1           | 1    | pinion 1           | 1    |
| 10   | G2   | gear 1            | 1    | gear 1            | 1    | gear 1            | 1    | gear 1            | 1    | gear 1             | 1    | gear 1             | 1    |
| 11   | P3   | pinion 3          | 1    | pinion 3          | 1    | pinion 3          | 1    | pinion 3          | 1    | pinion 3           | 1    | pinion 3           | 1    |
| 12   | G3   | gear 3            | 1    | gear 3            | 1    | gear 3            | 1    | gear 3            | 1    | gear 3             | 1    | gear 3             | 1    |
| 13   | SP   | spacer            | 1    | spacer            | 1    | spacer            | 1    | spacer            | 1    | spacer             | 1    | spacer             | 1    |
| 14   | SP   | spacer            | 1    | spacer            | 1    | spacer            | 1    | spacer            | 1    | spacer             | 1    | spacer             | 1    |
| 16a  | BEA  | bearing 7202      | 1    | bearing 7302      | 1    | bearing 7304      | 1    | bearing 7304      | 1    | bearing 7306       | 1    | Bearing 7307       | 1    |
| 16b  | BEA  | bearing 7202      | 1    | bearing 7203      | 1    | bearing 7204      | 1    | bearing 7204      | 1    | bearing 7306       | 1    | Bearing 7307       | 1    |
| 17   | BEA  | bearing 6003      | 1    | bearing 6004      | 1    | bearing 6205      | 1    | bearing 6205      | 1    | bearing 6207       | 1    | Bearing 6208       | 1    |
| 18   | BEA  | bearing 6205      | 1    | bearing 6206      | 1    | bearing 6207      | 1    | bearing 6208      | 1    | bearing 6210       | 1    | Bearing 6212       | 1    |
| 19   | BEA  | bearing 6206ZZ    | 1    | bearing 6207ZZ    | 1    | bearing 6208ZZ    | 1    | bearing 6209ZZ    | 1    | bearing 6311ZZ     | 1    | Bearing 6313-zz    | 1    |
| 20a  | BEA  |                   |      |                   |      |                   |      | bearing 6210ZZ    | 1    | bearing 6212ZZ     | 1    | bearing 6215-zz    | 1    |
| 20b  | BEA  |                   |      |                   |      |                   |      | bearing 6211ZZ    | 1    | bearing 6213ZZ     | 1    | bearing 6216-zz    | 1    |
| 20   | BEA  | bearing 6008ZZ    | 2    | bearing 6009ZZ    | 2    | bearing 6009ZZ    | 2    |                   |      | bearing 6009ZZ     | 2    |                    |      |
| 21   | COV  | plug seal D25     | 1    | plug seal D30     | 1    | plug seal D35     | 1    | plug seal D35     | 1    | plug seal D42      | 1    | plug seal D52      | 1    |
| 22   | COV  | plug seal D35     | 1    | plug seal D42     | 1    | plug seal D52     | 1    | plug seal D52     | 1    | plug seal D72      | 1    | plug seal D80      | 1    |
| 23   | OS   | oil seal 40x55x8  | 1    | oil seal 45x60x9  | 1    | oil seal 45x60x9  | 1    | oil seal 55x80x10 | 1    | oil seal 65x90x12  | 1    | oil seal 80x105x13 | 1    |
|      |      |                   |      |                   |      |                   |      |                   |      | oil seal 45x60x9   | 1    |                    |      |
| 24   | OS   | oil seal 62x35x11 | 1    | oil seal 40x72x10 | 1    | oil seal 50x80x12 | 1    | oil seal 55x85x12 | 1    | oil seal 65x120x15 | 1    | oil seal 72x140x18 | 1    |
| 25   | SNR  | snap ring         | 1    | snap ring         | 1    | snap ring         | 1    | snap ring         | 1    | snap ring          | 1    | snap ring          | 1    |
| 26   | SNR  | snap ring         | 1    | snap ring         | 1    | snap ring         | 1    | snap ring         | 1    | snap ring          | 1    | snap ring          | 1    |
| 27   | SNR  | snap ring         | 2    | snap ring         | 2    | snap ring         | 2    | snap ring         | 2    | snap ring          | 2    | snap ring          | 1    |
| 28   | SNR  | snap ring         | 2    | snap ring         | 2    | snap ring         | 2    | snap ring         | 2    | snap ring          | 2    | snap ring          | 2    |
| 29   | SNR  | snap ring         | 1    | snap ring         | 1    | snap ring         | 1    | snap ring         | 1    | snap ring          | 1    | snap ring          | 1    |
| 30   | BPL  | breather plug     | 1    | breather plug     | 1    | breather plug     | 1    | breather plug     | 1    | breather plug      | 1    | breather plug      | 1    |
| 31   | FPL  | filler plug       | 6    | filler plug       | 6    | filler plug       | 6    | filler plug       | 6    | filler plug        | 6    | filler plug        | 6    |
| 32   | LPL  | level plug        | 1    | level plug        | 1    | level plug        | 1    | level plug        | 1    | level plug         | 1    | level plug         | 1    |
| 33   | WSH  | washer            | 4    | washer            | 4    | washer            | 4    | washer            | 4    | washer             | 4    | washer             | 4    |
| 34   | KEY  | key               | 1    | key               | 1    | key               | 1    | key               | 1    | key                | 1    | key                | 1    |
| 35   | KEY  | eye-bolt          | 1    | eye-bolt          | 1    | eye-bolt          | 1    | eye-bolt          | 1    | eye-bolt           | 1    | eye-bolt           | 1    |
| 37   | KEY  | key               | 1    | key               | 1    | key               | 1    | key               | 1    | key                | 1    | key                | 1    |
| 39   | KEY  | key               | 1    | key               | 1    | key               | 1    | key               | 1    | key                | 1    | key                | 1    |
| 40   | KEY  | key               | 1    | key               | 1    | key               | 1    | key               | 1    | key                | 1    | key                | 1    |
| 41   | OFL  | output flange     | 1    | output flange     | 1    | output flange     | 1    | output flange     | 1    | output flange      | 1    | output flange      | 1    |
|      |      | 200               |      | 200               |      | 250               |      | 300               |      | 350                |      | 450                |      |
|      |      | 160               |      | 160               |      | 200               |      | 250               |      | 300                |      | 350                |      |
| 42   |      | base              | 1    | base              | 1    | base              | 1    | base              | 1    | base               | 1    | base               | 1    |
|      | FSW  | SW                |      | SW                |      | SW                |      | SW                |      | SW                 |      | SW                 |      |
|      | FBF  | BF                |      | BF                |      | BF                |      | BF                |      | BF                 |      | BF                 |      |
| 43   | SCR  | screw             | 6    | screw             | 6    | screw             | 6    | screw             | 6    | screw              | 6    | screw              | 6    |
| 44   | SCR  | screw             | 6    | screw             | 6    | screw             | 6    | screw             | 6    | screw              | 6    | screw              | 6    |
| 45   | SCR  | screw             | 4    | screw             | 4    | screw             | 4    | screw             | 4    | screw              | 4    | screw              | 4    |
| 46   | SCR  | screw             | 4    | screw             | 4    | screw             | 4    | screw             | 4    | screw              | 4    | screw              | 4    |
| 47   | SCR  | screw             | 4    | screw             | 4    | screw             | 4    | screw             | 4    | screw              | 4    | screw              | 4    |
| 48   | SCR  | screw             | 6    | screw             | 6    | screw             | 6    | screw             | 6    | screw              | 6    | screw              | 6    |
| 49   | GK49 | gasket            | 1    | gasket            | 1    | gasket            | 1    | gasket            | 1    | gasket             | 1    | gasket             | 1    |
| 50   | GK50 | gasket            | 1    | gasket            | 1    | gasket            | 1    | gasket            | 1    | gasket             | 1    | gasket             | 1    |

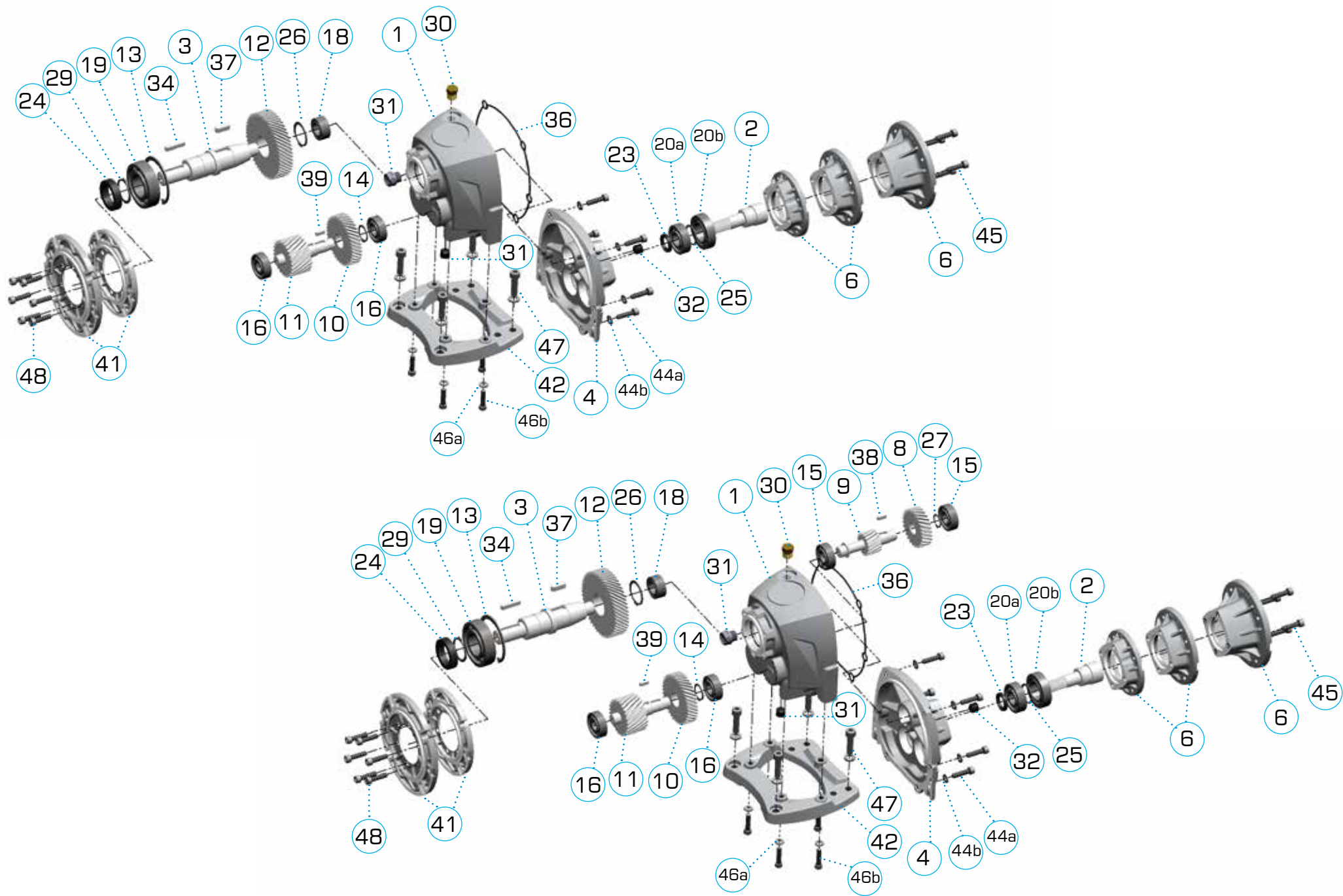
# LIST OF COMPONENTS ROBUS 25-60 3 (3 REDUCTION STAGES)



# LIST OF COMPONENTS ROBUS 25-60 3 (3 REDUCTION STAGES)

|       |            | ROBUS25-3                               |      | ROBUS30-3                 |      | ROBUS35-3                 |      | ROBUS40-3                  |      | ROBUS50-3                   |      | ROBUS60-3                           |      |
|-------|------------|-----------------------------------------|------|---------------------------|------|---------------------------|------|----------------------------|------|-----------------------------|------|-------------------------------------|------|
| item  | code       | description                             | q.ty | description               | q.ty | description               | q.ty | description                | q.ty | description                 | q.ty | description                         | q.ty |
| 1     | HOU        | housing                                 | 1    | housing                   | 1    | housing                   | 1    | housing                    | 1    | housing                     | 1    | housing                             | 1    |
| 2     | ISH        | input shaft                             | 1    | input shaft               | 1    | input shaft               | 1    | input shaft                | 1    | input shaft                 | 1    | input shaft                         | 1    |
| 3     | OSH        | output shaft                            | 1    | output shaft              | 1    | output shaft              | 1    | output shaft               | 1    | output shaft                | 1    | output shaft                        | 1    |
|       |            | D25xL50<br>D30xL60                      |      | D30xL60<br>D35xL70        |      | D35xL70<br>D40xL80        |      | D40xL80<br>D50xL100        |      | D50xL100<br>D60xL120        |      | D60xL120<br>D70xL140                |      |
| 4     | ICV        | input cover                             | 1    | input cover               | 1    | input cover               | 1    | input cover                | 1    | input cover                 | 1    | input cover                         | 1    |
| 5     | TCV        | top cover                               | 1    | top cover                 | 1    | top cover                 | 1    | top cover                  | 1    | top cover                   | 1    | top cover                           | 1    |
| 6     | IFL        | input flange                            | 1    | input flange              | 1    | input flange              | 1    | input flange               | 1    | input flange                | 1    | input flange                        | 1    |
|       |            | 63B5<br>71B5<br>80B5<br>90B5<br>100/112 |      | 71<br>80<br>90<br>100/112 |      | 71<br>80<br>90<br>100/112 |      | 80<br>90<br>100/112<br>132 |      | 90<br>100/112<br>132<br>160 |      | 100/112<br>132<br>160<br>180<br>200 |      |
| 7     | P1         | pinion 1                                | 1    | pinion 1                  | 1    | pinion 1                  | 1    | pinion 1                   | 1    | pinion 1                    | 1    | pinion 1                            | 1    |
| 8     | G1         | gear 1                                  | 1    | gear 1                    | 1    | gear 1                    | 1    | gear 1                     | 1    | gear 1                      | 1    | gear 1                              | 1    |
| 9     | P2         | pinion 2                                | 1    | pinion 2                  | 1    | pinion 2                  | 1    | pinion 2                   | 1    | pinion 2                    | 1    | pinion 2                            | 1    |
| 10    | G2         | gear 2                                  | 1    | gear 2                    | 1    | gear 2                    | 1    | gear 2                     | 1    | gear 2                      | 1    | gear 2                              | 1    |
| 11    | P3         | pinion 3                                | 1    | pinion 3                  | 1    | pinion 3                  | 1    | pinion 3                   | 1    | pinion 3                    | 1    | pinion 3                            | 1    |
| 12    | G3         | gear 3                                  | 1    | gear 3                    | 1    | gear 3                    | 1    | gear 3                     | 1    | gear 3                      | 1    | gear 3                              | 1    |
| 13    | SP         | spacer D30.5xL24                        | 1    | spacer D35.5xL32.5        | 1    | spacer D40.5xL36.6        | 1    | spacer                     | 1    | spacer D55.5xL45            | 1    | spacer D65.5xL50                    | 1    |
| 14    | SP         | spacer D20xL22                          | 1    | spacer D20.5xL23.5        | 1    | spacer D21.5xL24.5        | 1    | spacer                     | 1    | spacer D35xL32              | 1    | spacer D40.5xL38                    | 1    |
| 15inp | BEA        | bearing 6002ZZ                          | 1    | bearing 6003ZZ            | 1    | bearing 6203ZZ            | 1    | bearing 6204ZZ             | 1    | bearing 6206ZZ              | 1    | bearing 6207ZZ                      | 1    |
| 15out | BEA        | bearing 6002                            | 2    | bearing 6003              | 2    | bearing 6203              | 2    | bearing 6204               | 2    | bearing 6206                | 2    | Bearing 6207                        | 2    |
| 16a   | BEA        | bearing 6202                            | 1    | bearing 6302              | 1    | bearing 6304              | 1    | bearing 6304               | 1    | bearing 6306                | 1    | Bearing 6307                        | 1    |
| 16b   | BEA        | bearing 6202ZZ                          | 1    | bearing 6203ZZ            | 1    | bearing 6204ZZ            | 1    | bearing 6204ZZ             | 1    | bearing 6306ZZ              | 1    | Bearing 6307ZZ                      | 1    |
| 17    | BEA        | bearing 6003                            | 1    | bearing 6004              | 1    | bearing 6205              | 1    | bearing 6205               | 1    | bearing 6207                | 1    | Bearing 6208                        | 1    |
| 18    | BEA        | bearing 6205                            | 1    | bearing 6206              | 1    | bearing 6207              | 1    | bearing 6208               | 1    | bearing 6210                | 1    | Bearing 6212                        | 1    |
| 19    | BEA        | bearing 6206                            | 1    | bearing 6207ZZ            | 1    | bearing 6208ZZ            | 1    | bearing 6209ZZ             | 1    | bearing 6311ZZ              | 1    | Bearing 6313ZZ                      | 1    |
| 20a   | BEA        |                                         |      |                           |      |                           |      | bearing 6210ZZ             | 1    | bearing 6212ZZ              | 1    | bearing 6215ZZ                      | 1    |
| 20b   | BEA        |                                         |      |                           |      |                           |      | bearing 6211ZZ             | 1    | bearing 6213ZZ              | 1    | bearing 6216ZZ                      | 1    |
| 20    | BEA        | bearing 6008ZZ                          | 2    | bearing 6009ZZ            | 2    | bearing 6009ZZ            | 2    | bearing 6009ZZ             | 2    | bearing 6009ZZ              | 2    |                                     |      |
| 21    | COV        | plug seal D25                           | 1    | plug seal D30             | 1    | plug seal D35             | 1    | plug seal D35              | 1    | plug seal D42               | 1    | plug seal D52                       | 1    |
| 22    | COV        | plug seal D35                           | 1    | plug seal D42             | 1    | plug seal D52             | 1    | plug seal D52              | 1    | plug seal D72               | 1    | plug seal D80                       | 1    |
| 23    | OS         | oil seal 40x55x8                        | 1    | oil seal 45x60x9          | 1    | oil seal 45x60x9          | 1    | oil seal 55x80x10          | 1    | oil seal 65x90x12           | 1    | oil seal 80x105x13                  | 1    |
|       |            |                                         |      |                           |      |                           |      | oil seal 45x60x9           |      | oil seal 45x60x9            |      |                                     |      |
| 24    | OS         | oil seal 35x62x11                       | 1    | oil seal 40x72x10         | 1    | oil seal 50x80x12         | 1    | oil seal 55x85x12          | 1    | oil seal 65x120x15          | 1    | oil seal 72x140x18                  | 1    |
| 25    | SNR        | snap ring                               | 1    | snap ring                 | 1    | snap ring                 | 1    | snap ring                  | 1    | snap ring                   | 1    | snap ring                           | 1    |
| 26    | SNR        | snap ring                               | 1    | snap ring                 | 1    | snap ring                 | 1    | snap ring                  | 1    | snap ring                   | 1    | snap ring                           | 1    |
| 27    | SNR        | snap ring                               | 2    | snap ring D35             | 2    | snap ring                 | 2    | snap ring                  | 2    | snap ring                   | 2    | snap ring                           | 1    |
| 28    | SNR        | snap ring                               | 2    | snap ring                 | 2    | snap ring                 | 2    | snap ring                  | 2    | snap ring                   | 2    | snap ring                           | 2    |
| 29    | SNR        | snap ring                               | 1    | snap ring                 | 1    | snap ring                 | 1    | snap ring                  | 1    | snap ring                   | 1    | snap ring                           | 1    |
| 30    | BPL        | breather plug                           | 1    | breather plug             | 1    | breather plug             | 1    | breather plug              | 1    | breather plug               | 1    | breather plug                       | 1    |
| 31    | FPL        | filler plug                             | 6    | filler plug               | 6    | filler plug               | 6    | filler plug                | 6    | filler plug                 | 6    | filler plug                         | 6    |
| 32    | LPL        | level plug                              | 1    | level plug                | 1    | level plug                | 1    | level plug                 | 1    | level plug                  | 1    | level plug                          | 1    |
| 33    | WSH        |                                         |      |                           |      |                           |      |                            |      |                             |      |                                     |      |
| 34    | KEY        | key                                     | 1    | key                       | 1    | key                       | 1    | key                        | 1    | key                         | 1    | key                                 | 1    |
| 35    | KEY        | eye-bolt                                | 1    | eye-bolt                  | 1    | eye-bolt                  | 1    | eye-bolt                   | 1    | eye-bolt                    | 1    | eye-bolt                            | 1    |
| 37    | KEY        | key                                     | 1    | key                       | 1    | key                       | 1    | key                        | 1    | key                         | 1    | key                                 | 1    |
| 38    | KEY        | key                                     | 1    | key                       | 1    | key                       | 1    | key                        | 1    | key                         | 1    | key                                 | 1    |
| 39    | KEY        | key                                     | 1    | key                       | 1    | key                       | 1    | key                        | 1    | key                         | 1    | key                                 | 1    |
| 40    | KEY        | Key                                     | 1    | Key                       | 1    | Key                       | 1    | Key                        | 1    | Key                         | 1    | Key                                 | 1    |
| 41    | OFL        | output flange                           | 1    | output flange             | 1    | output flange             | 1    | output flange              | 1    | output flange               | 1    | output flange                       | 1    |
|       |            | 200<br>160                              |      | 200<br>160                |      | 250<br>200                |      | 300<br>250                 |      | 350<br>300                  |      | 450<br>350                          |      |
| 42    | FSW<br>FBF | base<br>SW<br>BF                        | 1    | base<br>SW<br>BF          | 1    | base<br>SW<br>BF          | 1    | base<br>SW<br>BF           | 1    | base<br>SW<br>BF            | 1    | base<br>SW<br>BF                    | 1    |
| 43    | SCR        | screw                                   | 6    | screw                     | 6    | screw                     | 6    | screw                      | 6    | screw                       | 6    | screw                               | 6    |
| 44    | SCR        | screw                                   | 6    | screw                     | 6    | screw                     | 6    | screw                      | 6    | screw                       | 6    | screw                               | 6    |
| 45    | SCR        | screw                                   | 4    | screw                     | 4    | screw                     | 4    | screw                      | 4    | screw                       | 4    | screw                               | 4    |
| 46    | SCR        | screw                                   | 4    | screw                     | 4    | screw                     | 4    | screw                      | 4    | screw                       | 4    | screw                               | 4    |
| 47    | SCR        | screw                                   | 4    | screw                     | 4    | screw                     | 4    | screw                      | 4    | screw                       | 4    | screw                               | 4    |
| 48    | SCR        | screw                                   | 6    | screw                     | 6    | screw                     | 6    | screw                      | 6    | screw                       | 6    | screw                               | 6    |
| 49    | GK49       | gasket                                  | 1    | gasket                    | 1    | gasket                    | 1    | gasket                     | 1    | gasket                      | 1    | gasket                              | 1    |
| 50    | GK50       | gasket                                  | 1    | gasket                    | 1    | gasket                    | 1    | gasket                     | 1    | gasket                      | 1    | gasket                              | 1    |

LIST OF COMPONENTS ROBUS A2-2 AND ROBUS A2-3



## LIST OF COMPONENTS ROBUS A2-2 AND ROBUS A2-3

| item                                                      | code   | description                             | q.ty |
|-----------------------------------------------------------|--------|-----------------------------------------|------|
| <b>list of components Robus A2-2 (2 reduction stages)</b> |        |                                         |      |
| 1                                                         | HOU    | Housing                                 | 1    |
| 2                                                         | ISH-P1 | Input shaft with integrated pinion      | 1    |
| 3                                                         | OSH    | Output shaft<br>D20x40<br>D25x50        | 1    |
| 4                                                         | ICV    | Input cover                             | 1    |
| 6                                                         | IFL    | Input flange<br>63B14<br>71B14<br>80B14 | 1    |
| 10                                                        | G1     | Gear 1                                  | 1    |
| 11                                                        | P3     | Pinion 3                                | 1    |
| 12                                                        | G3     | Gear 3                                  | 1    |
| 13                                                        | SNR    | circlip                                 | 1    |
| 14                                                        | SNR    | circlip                                 | 1    |
| 16                                                        | BEA    | Bearing, 6202ZZ                         | 2    |
| 18                                                        | BEA    | Bearing, NA4903                         | 1    |
| 19                                                        | BEA    | Bearing, 6206ZZ                         | 1    |
| 20a                                                       | BEA    | Bearing, 6203ZZ                         | 1    |
| 20b                                                       | BEA    | Bearing, 6005ZZ                         | 1    |
| 23                                                        | OS     | Oil seal, 17X25X                        | 1    |
| 24                                                        | OS     | Oil seal, 30X42X10                      | 1    |
| 25                                                        | SNR    | circlip                                 | 1    |
| 26                                                        | SNR    | circlip                                 | 1    |
| 29                                                        | SNR    | circlip                                 | 1    |
| 30                                                        | BPL    | Breather plug 1/4"                      | 1    |
| 31                                                        | FPL    | Filler plug 1/4"                        | 2    |
| 32                                                        | LPL    | Level plug 1/4"                         | 1    |
| 34                                                        | KEY    | key                                     | 1    |
| 36                                                        | OR     | o-ring                                  | 1    |
| 37                                                        | KEY    | key                                     | 1    |
| 39                                                        | KEY    | key                                     | 1    |
| 41                                                        | OFL    | Output flange<br>120<br>140             | 1    |
| 42                                                        | FT     | Base                                    | 1    |

| item                                                         | code | description           | q.tà |
|--------------------------------------------------------------|------|-----------------------|------|
| <b>additional components Robus A2-3 (3 reduction stages)</b> |      |                       |      |
| 8                                                            | G1   | Gear 1                | 1    |
| 9                                                            | P2   | Pinion 2              | 1    |
| 10                                                           | G2   | Gear 2                | 1    |
| 15                                                           | BEA  | Bearing, 6202ZZ       | 2    |
| 27                                                           | SNR  | External Circlip (G1) | 1    |
| 38                                                           | KEY  | Key                   | 1    |
| 39                                                           | KEY  | Key                   | 1    |



## CODE SYSTEM

- 1 first 4 digits describe the ROBUS size

**RB40** =ROBUS 40

**RB50** =ROBUS 50

**RBA2** =ROBUS A2

etc



- 2 then 1 digit tell the nr of stages

**2** =2 stages

**3** =3 stages

- 3 then 3 digits are the rated ratio

**020** =i:20

**120** =i:120

etc

- 4 then 3 digits for the mounting type

**FSW** =base type SW

**FBF** =base type BF

**120** =output flange 56B5 KP=120

**140** =output flange 63B5 KP=140

**160** =output flange 71B5 KP=160

**200** =output flange 80/90B5 KP=200

**250** =output flange 100/112B5 KP=250

**300** =output flange 132B5 KP=300

**350** =output flange 160/180 KP=350

**450** =output flange 200 KP=450

**UNV** =without foot or output flange

- 5 3 digits for the input flange (that determines the input hole diameter too)

**714** =71B14

**805** =80B5

**905** =90B5

**125** =100-112B5

**135** =132B5

etc ...

- 6 D2 to indicate whether the output shaft is the biggest option. For example, Robus 25 may have an output shaft with diameter 25 or 30mm. If you ask the 30mm one, write D2 at the end of the code

For instance:

**RB603070FSW135**

ROBUS 60

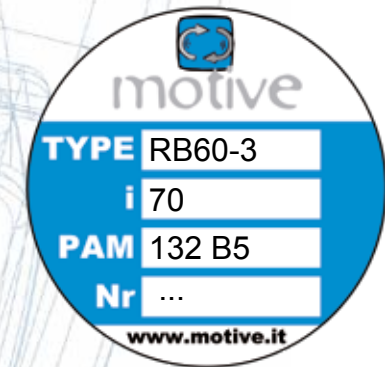
3 stages

ratio i:70

SW foot mounting

input PAM flange 132 B5

Plate:



## LUBRICATION

Each Robus is supplied with long-life synthetic oil and do not require any maintenance.  
The oil quantity is suitable for B3 mounting position

| ROBUS | oil (lt) |      |      |      |       |      | ISO       | temp.        | oil type                 |                          |
|-------|----------|------|------|------|-------|------|-----------|--------------|--------------------------|--------------------------|
|       | B3       | B6   | B7   | B8   | V5    | V6   |           |              |                          |                          |
| A2    | 0,35     | 0,55 | 0,65 | 0,6  | 0,6   | 0,55 | VG<br>220 | -25<br>+80°C | Mobil<br>Glygoyle<br>220 | Shell<br>Omala<br>S4 220 |
| 25    | 0,3      | 0,75 | 0,95 | 0,95 | 1,3   | 0,85 |           |              |                          |                          |
| 30    | 0,7      | 1,5  | 1,5  | 1,5  | 2,6   | 1,6  |           |              |                          |                          |
| 35    | 1,1      | 2,2  | 2,2  | 2    | 3,9   | 3,6  |           |              |                          |                          |
| 40    | 1,2      | 2,5  | 3,4  | 3,4  | 4,75  | 3,8  |           |              |                          |                          |
| 50    | 2,3      | 6,3  | 6,5  | 6,5  | 8,80  | 6,7  |           |              |                          |                          |
| 60    | 4,6      | 11,3 | 11,7 | 11,7 | 15,30 | 11,7 |           |              |                          |                          |

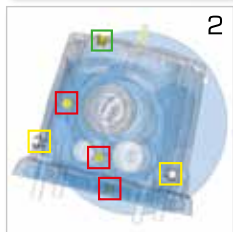
### THE MANUAL FIRST OF ALL:



After adapting the oil quantity, each Robus can be mounted in ANY position, thus giving big advantages in the stock management and lead time, thanks to the following 3 characteristics:



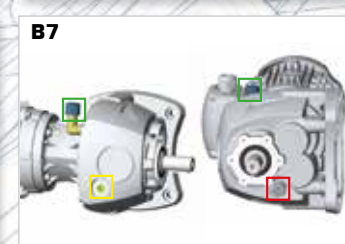
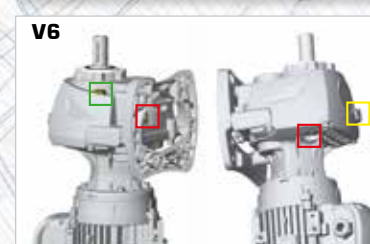
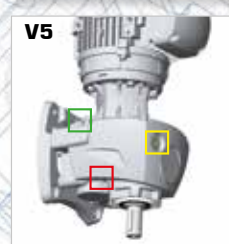
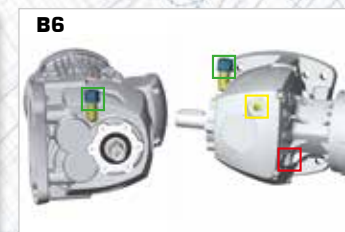
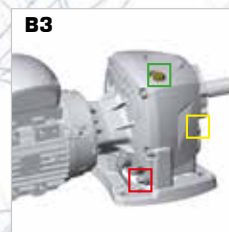
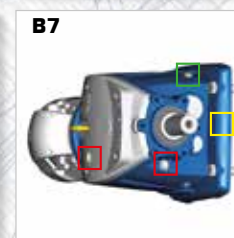
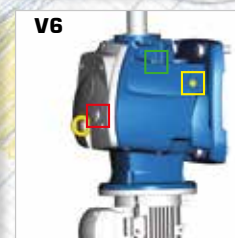
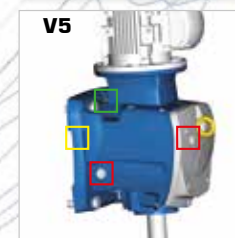
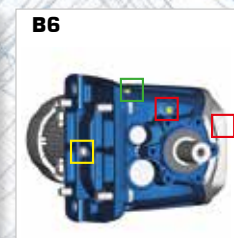
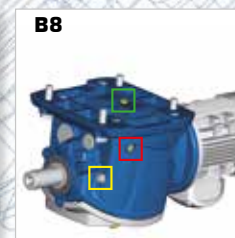
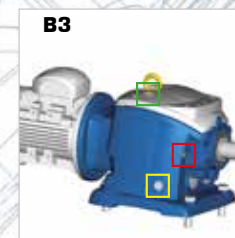
ZZ autolubricating bearings on input and output shaft



6 interchangeable plugs, including one breather plug and a level plug. Level and breather plug must be positioned according to this chart



mechanical parts locked in their positions by circlips and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings



breather plug



level plug



filler plug



Elbow vent plug

### Rated output torque $M_{n2}$ [Nm]

Torque output transmissible under uniform loading and referred to the input speed  $n_1$  and the corresponding output speed  $n_2$ .

The output torque can be calculated with the following formula:

$$M_{n2} = \frac{P_{n1} [\text{kW}] \cdot 9550}{n_2} \cdot \eta$$

### Torque demand $M_{r2}$ [Nm]

Torque calculated based on application requirements. It must be  $\leq M_{n2}$  of the chosen BOX unit.

### Input power $P_{n1}$ [kW]

This is the power value of the motor applied to the input shaft and corresponding to a certain input speed  $n_1$ , a service factor  $f_s = 1$  and a duty service  $S_1$ .

It is even possible to calculate the motor-size necessary by using the formula:

$$P_{n1} [\text{kW}] = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta}$$

Since the value calculated in this way could not really correspond to an input power actually available in the IEC standardised motors, it will be necessary to choose, among the input powers available, the one which is immediately higher, checking this in the Motive catalogue of the motors.

### Efficiency $\eta$ [%]

An inherent factor in the selection worm-gear boxes is the efficiency  $\eta$ , defined as the ratio between the mechanical power coming out from the output shaft, and the power in the input shaft:

$$\eta = \frac{P_{n2}}{P_{n1}}$$

The efficiency in helical gearboxes is mainly determined by the gearing and

bearing friction.

The efficiency of ROBUS varies with the nr of stages: it's 94% when the reduction stages are 3, 96% when the stages are 2.

The starting efficiency is always less than the efficiency at rated speed

### Gear ratio $i$

It is the relationship of the input speed  $n_1$  and the output speed  $n_2$

$$i = \frac{n_1}{n_2}$$

In the combined, the total ratio is the result of the product of the ratio of the two single boxes.

### Input speed $n_1$ [rpm]

It is the speed the BOX unit is driven at.

### Output speed $n_2$ [rpm]

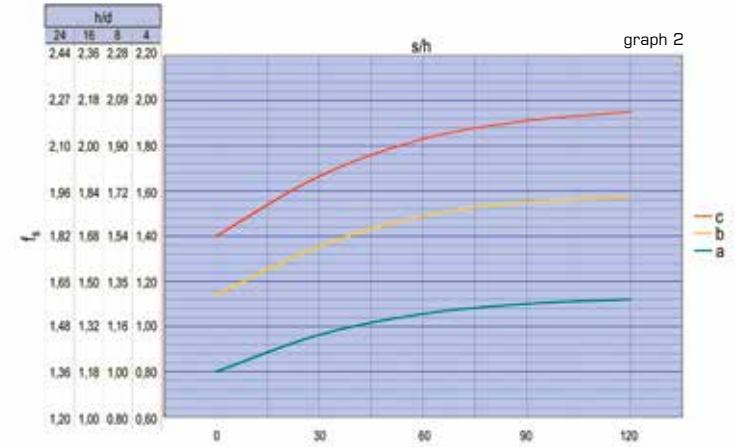
It is the rotation speed of the output shaft.

### Service factor $f_s$

It is a numeric value describing the BOX unit service duty. With unavoidable approximation, it takes into consideration:

- the daily working hours **h/d**
- the load classification (see table 2), and then the moment of inertia of the driven masses.
- The number of starts per hour **s/h**
- The presence of brake motors, for which it is necessary to multiply for 1.12 the service factor value deducted by the graph 2.
- The significance of the application in terms of safety, for example lifting of parts

In the graph 2, the service factor  $f_{sr}$  required by a certain application can be attained, after having selected the proper "daily working hours" (h/d) column, by intersecting the number of starts per hour (s/h) and one of the a, b or c curves. The curves a, b and c are linked with the load classification described in the table 2.



tab. 2

| load classification                                                                                         | application                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>c</b><br>uneven operation, heavy loads, larger masses to be accelerated                                  | conveyors with violent jerks; compressors and alternate pumps with 1 or more cylinders; machinery for bricks, tiles and clay; kneaders; milling machines; lifting winches with buckets; rotting furnaces; heavy fans or mining purposes; mixers for heavy materials; machine-tools; planing kinds; alternating saws; shears; tumbling barrels; vibrators; shredders; turntables                                                             |
| <b>b</b><br>starting with moderate loads, uneven operating conditions, medium size masses to be accelerated | belt conveyors with varied load with transfer of bridge trucks for light duty; levelling machines; shakers and mixed for liquid with variable density and viscosity; machines for the food industry (kneading troughs, mincing machines, slicing machines, etc); sifting machines for sand gravel; textile industry machines; cranes, hoists, goodstifts; fertilizer scrapers; concrete mixers; folding machines; winches; crane mechanisms |
| <b>a</b><br>easy starting, smooth operation, small masses be accelerated                                    | belt conveyors for light material; centrifugal pumps; rotary gear pumps; screw feeders for light materials; lifts; bottling machines; auxiliary controls of tool machines; fans; power generators; fillers; small mixers                                                                                                                                                                                                                    |

If, after the selection of the right  $M_{r2}$  and  $n_2$  in the following performance tables, you don't find a ROBUS unit whose service factor  $f_s$  is  $\geq$  of the requested one  $f_{sr}$ , you can choose a ROBUS unit in which  $M_{n2} > M_{r2}$ . In fact, in order to satisfy  $f_{sr}$ , you can choose another BOX unit whose output torque is  $\geq M_{c2}$  output torque, where:

$$M_{c2} = M_{r2} \cdot f_{sr}$$

Note: This rule is valid only if the new BOX unit that has been selected in this way has a service factor  $f_s \geq 1$  in the performance tables.

From another point of view, the value of  $f_s$  in the performance tables refers to a case in

which the effective torque requested by the application  $M_{r2}$  matches perfectly with the one appearing on the catalogue  $M_{n2}$ . Whenever the torque indicated in the performance table is higher than the requested one, the offered service factor of the performance table can be increased according to the formula:

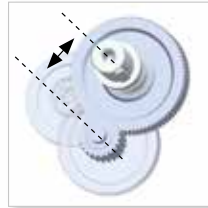
$$f_{s \text{ real}} = \frac{f_s \text{ on the table} \cdot M_{n2} \text{ on the table}}{M_{r2}}$$

The value of  $f_s$  calculated in this way must be  $\geq f_{sr}$ .

## Offered service factor

Which features determine the service factor offered by an helical gearbox?

The service factor of a gearbox is its capacity to withstand operating load and overloads, a certain number of starts, the duration of operating time, and mechanical shocks and vibrations. Thus, higher the service factor, greater is the possibility of trouble-free operation and increased life. Without aiming to be completely exhaustive, we list here the main features that influence the service factor:



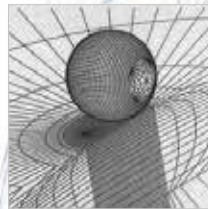
Amongst all parts, the last stage gears are subjected to highest mechanical stresses. Higher centre distance which in turn results in higher module considerably increases the service factor. ROBUS excels in the area (see measures at page 26)



Compared to fractioned or Aluminium body, the monobloc cast-iron body of ROBUS provides higher rigidity and mechanical robustness. At the same time, a one-piece body like that of ROBUS-A is more rigid and reliable than a body composed of several parts



Use of high strength steels and case hardening to  $58 \pm 2$  HRC reduce the wear rate in wheels. All wheels are profile ground to Din 3962 class 6 accuracy for low noise and high efficiency.



The surface is exposed to a bombardment of micro-spheres that induces compression and increases further the fatigue resistance.



Shafts are made from 42CrMo4 steel and tempered to reach a hardness of 23-35 HRC, thus increasing their capacity to withstand shearing stresses and torsion effect.



Optimal ratios (between 2 and 6) in the several stages, together with appropriate centre distances, result in higher number of teeth and size (module) of each wheel and better torque transmission fractioning through various stages. This improves the overall durability.



Dual bearing support on the input shaft ensures precise alignment of the first stage gears and reduces vibrations and consequent gear wear



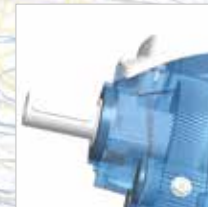
If the intermediate shaft is rigidly supported on both ends, with no overhang wheel, imparts greater flexural strength and smoother meshing



Oversized bearings (see ROBUS bearings list), allow the gearbox to withstand higher operating loads



Mechanical parts locked in their position by snap rings and spacers. This ensures better absorption of axial thrust and prolongs the life of bearings



Smaller overhang of output shaft from supporting bearing in order to withstand higher radial loads

# PMAX KW

(fs = 1; n<sub>1</sub> = 1400rpm)

| i:  | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |       | ROBUS 40 |       | ROBUS 50 |       | ROBUS 60 |       |
|-----|----------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|
|     | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3  | 40-2     | 40-3  | 50-2     | 50-3  | 60-2     | 60-3  |
| 2   |          |      |          |      |          |      | 24,82    |       |          |       |          |       |          |       |
| 2,5 |          |      |          |      | 21,98    |      | 22,60    |       |          |       |          |       | 108,88   |       |
| 3   |          |      |          |      | 21,98    |      | 24,82    |       |          |       | 66,47    |       |          |       |
| 3,5 |          |      |          |      | 17,08    |      | 22,60    |       | 33,07    |       |          |       | 108,88   |       |
| 4   |          |      | 8,35     |      | 17,08    |      | 18,00    |       | 28,07    |       | 50,05    |       | 73,68    |       |
| 4,5 |          |      | 6,54     |      | 13,12    |      |          |       | 24,95    |       | 55,65    |       | 61,03    |       |
| 5   | 1,04     |      | 6,92     |      | 15,34    |      | 14,70    |       | 25,08    |       | 40,31    |       |          |       |
| 5,5 |          |      | 5,42     |      | 10,64    |      | 15,28    |       | 21,07    |       |          |       | 73,68    |       |
| 6   |          |      |          |      | 8,92     |      |          |       |          |       | 30,99    |       |          |       |
| 6,5 |          |      |          |      |          |      |          | 14,47 | 17,91    |       | 40,68    |       |          |       |
| 7   |          |      | 3,51     |      | 10,64    |      | 11,59    |       | 16,80    |       | 28,63    | 42,40 | 60,02    |       |
| 8   | 1,04     |      |          |      | 7,77     |      | 9,36     | 12,62 | 15,16    | 17,15 | 33,12    |       |          |       |
| 9   |          |      | 3,86     |      | 7,77     |      | 9,43     |       | 14,30    |       | 32,09    | 49,65 |          |       |
| 10  | 1,04     |      | 3,03     |      | 6,81     |      | 7,88     |       |          | 14,74 | 30,98    |       | 60,02    |       |
| 11  |          |      |          |      | 5,62     | 6,34 | 7,83     | 9,23  | 12,37    | 13,53 | 24,84    |       | 42,35    |       |
| 12  |          |      |          |      |          | 5,88 | 6,85     |       | 11,19    |       |          |       | 34,85    | 45,38 |
| 13  | 1,04     |      | 2,24     |      | 4,21     | 5,27 | 6,45     | 7,33  | 10,26    | 11,64 | 21,32    | 25,19 | 40,59    |       |
| 14  |          |      |          |      | 3,97     |      |          | 7,09  | 9,57     |       | 18,12    |       | 27,51    |       |
| 15  | 1,04     |      | 2,46     |      |          | 4,80 |          | 6,60  | 8,86     | 9,89  |          |       | 38,45    |       |
| 16  |          |      | 2,25     |      | 3,51     | 4,61 | 5,71     | 6,14  | 8,40     | 9,55  | 16,76    | 19,14 | 30,15    |       |
| 17  |          |      | 1,94     |      |          |      |          |       |          |       |          | 18,84 |          |       |
| 18  |          |      |          |      |          | 3,99 |          | 5,53  |          | 8,15  | 14,74    |       | 28,25    |       |
| 19  |          |      | 1,77     |      |          | 3,84 |          |       |          |       |          |       |          |       |
| 20  | 1,04     |      | 1,42     |      | 2,83     |      |          | 5,07  |          | 7,38  |          | 16,13 | 29,01    |       |
| 21  |          |      |          |      | 2,65     | 3,47 |          | 4,80  |          | 7,29  |          |       | 28,77    |       |
| 22  |          |      |          | 1,68 | 2,47     | 3,28 |          |       |          |       |          | 14,63 |          |       |
| 23  |          |      | 1,30     |      | 2,08     |      |          | 4,54  |          | 6,61  |          |       | 23,02    |       |
| 24  |          |      | 1,20     |      |          |      |          | 4,25  |          | 6,33  |          | 11,79 |          |       |
| 25  | 0,83     |      |          | 1,33 | 1,95     | 2,91 |          |       |          | 5,51  |          | 12,34 |          |       |
| 26  |          |      |          | 1,41 |          |      |          | 3,84  |          |       |          | 12,10 | 23,25    |       |
| 27  |          |      |          |      |          | 2,73 |          |       |          | 5,68  |          |       | 21,67    |       |
| 28  |          |      |          | 1,31 |          |      |          | 3,69  |          | 5,46  |          | 11,21 |          |       |
| 29  |          |      |          |      |          |      |          |       |          |       |          |       | 19,39    |       |
| 30  |          | 0,58 |          | 1,12 |          | 2,42 |          | 3,49  |          | 5,15  |          |       |          |       |
| 31  |          |      |          |      |          |      |          |       |          | 4,64  |          |       |          |       |
| 32  |          |      |          |      |          | 2,34 |          |       |          | 4,80  |          | 9,81  |          | 18,98 |

The max power of a gearbox is another way to read the service factor, and it is therefore the result of the same features that influence the gearbox reliability

It is the max power of the motor that could be connected to the gearbox, given an hypothetical required service factor of the gearbox = 1 and at a certain motor speed

For the max power in Hp at 60Hz, see the catalogue of the NEMA version

| i: | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |       |
|----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|-------|
|    | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3  |
| 33 |          |      |          | 1,09 |          |      |          |      |          |      |          |      | 9,71     | 18,78 |
| 34 |          |      |          | 1,05 |          | 2,20 |          | 3,07 |          |      |          |      |          |       |
| 35 |          | 0,53 |          |      |          |      |          | 3,04 |          | 4,44 |          | 8,58 |          |       |
| 36 |          |      |          |      | 2,07     |      | 2,90     |      | 4,28     |      | 8,12     |      | 15,65    |       |
| 37 |          |      | 0,86     |      |          |      |          |      | 3,87     |      |          |      |          |       |
| 38 |          |      |          |      | 1,96     |      | 2,58     |      | 3,78     |      |          |      |          |       |
| 39 |          | 0,53 |          | 0,90 |          |      |          |      |          |      |          |      |          | 15,84 |
| 40 |          |      |          |      |          |      | 2,56     |      |          |      |          | 7,22 |          |       |
| 41 |          |      |          | 0,84 |          | 1,84 |          | 2,57 |          | 3,45 |          | 7,11 |          | 14,26 |
| 42 |          |      |          | 0,81 |          | 1,62 |          | 2,51 |          |      |          |      |          | 14,11 |
| 43 |          |      |          |      |          | 1,55 |          |      |          | 3,33 |          |      |          |       |
| 44 |          |      |          |      |          |      |          |      |          | 3,16 |          |      |          |       |
| 45 |          |      |          | 0,76 |          | 1,66 |          | 2,38 |          |      |          | 6,56 |          | 13,93 |
| 46 |          | 0,50 |          |      |          |      |          | 1,95 |          | 2,81 |          |      |          | 12,28 |
| 47 |          |      |          |      |          |      |          | 1,93 |          |      |          |      |          |       |
| 48 |          |      |          | 0,71 |          | 1,44 |          |      |          | 2,90 |          | 6,16 |          | 11,33 |
| 49 |          |      |          |      |          |      |          | 1,93 |          | 2,84 |          |      |          |       |
| 50 |          | 0,46 |          | 0,72 |          |      |          |      |          | 2,76 |          |      |          | 11,89 |
| 51 |          |      |          |      |          | 1,49 |          | 2,11 |          |      |          | 5,75 |          | 12,24 |
| 52 |          |      |          |      |          |      |          | 1,73 |          |      |          | 5,69 |          | 10,15 |
| 53 |          |      |          | 0,65 |          |      |          |      |          | 2,61 |          |      |          |       |
| 54 |          |      |          | 0,62 |          |      |          | 1,67 |          |      |          |      |          | 10,64 |
| 55 |          | 0,46 |          |      |          | 1,40 |          |      |          | 2,53 |          |      |          |       |
| 56 |          |      |          |      |          |      |          | 1,63 |          |      |          | 5,34 |          |       |
| 57 |          |      |          | 0,54 |          | 1,17 |          |      |          | 2,44 |          |      |          | 10,45 |
| 58 |          |      |          | 0,54 |          |      |          |      |          |      |          |      |          |       |
| 59 |          | 0,46 |          |      |          |      |          | 1,78 |          |      |          |      |          | 8,99  |
| 60 |          |      |          | 0,56 |          | 1,16 |          |      |          |      |          | 4,46 |          |       |
| 61 |          |      |          | 0,56 |          |      |          |      |          |      |          |      |          | 9,86  |
| 62 |          |      |          |      |          |      |          |      |          | 2,28 |          | 4,82 |          |       |
| 63 |          |      |          | 0,54 |          |      |          | 1,77 |          |      |          |      |          | 8,43  |
| 64 |          | 0,42 |          |      |          | 1,09 |          |      |          | 2,21 |          |      |          |       |
| 65 |          |      |          | 0,53 |          |      |          |      |          | 2,18 |          | 4,63 |          | 9,27  |
| 66 |          |      |          |      |          |      |          |      |          |      |          |      |          | 8,31  |
| 67 |          |      |          |      |          | 0,93 |          |      |          |      |          |      |          | 7,94  |
| 68 |          |      |          |      |          | 0,91 |          | 1,35 |          |      |          |      |          |       |
| 69 |          |      |          | 0,45 |          | 0,98 |          | 1,34 |          |      |          |      |          |       |
| 70 |          | 0,38 |          | 0,50 |          | 0,89 |          | 1,31 |          |      |          |      |          | 8,30  |

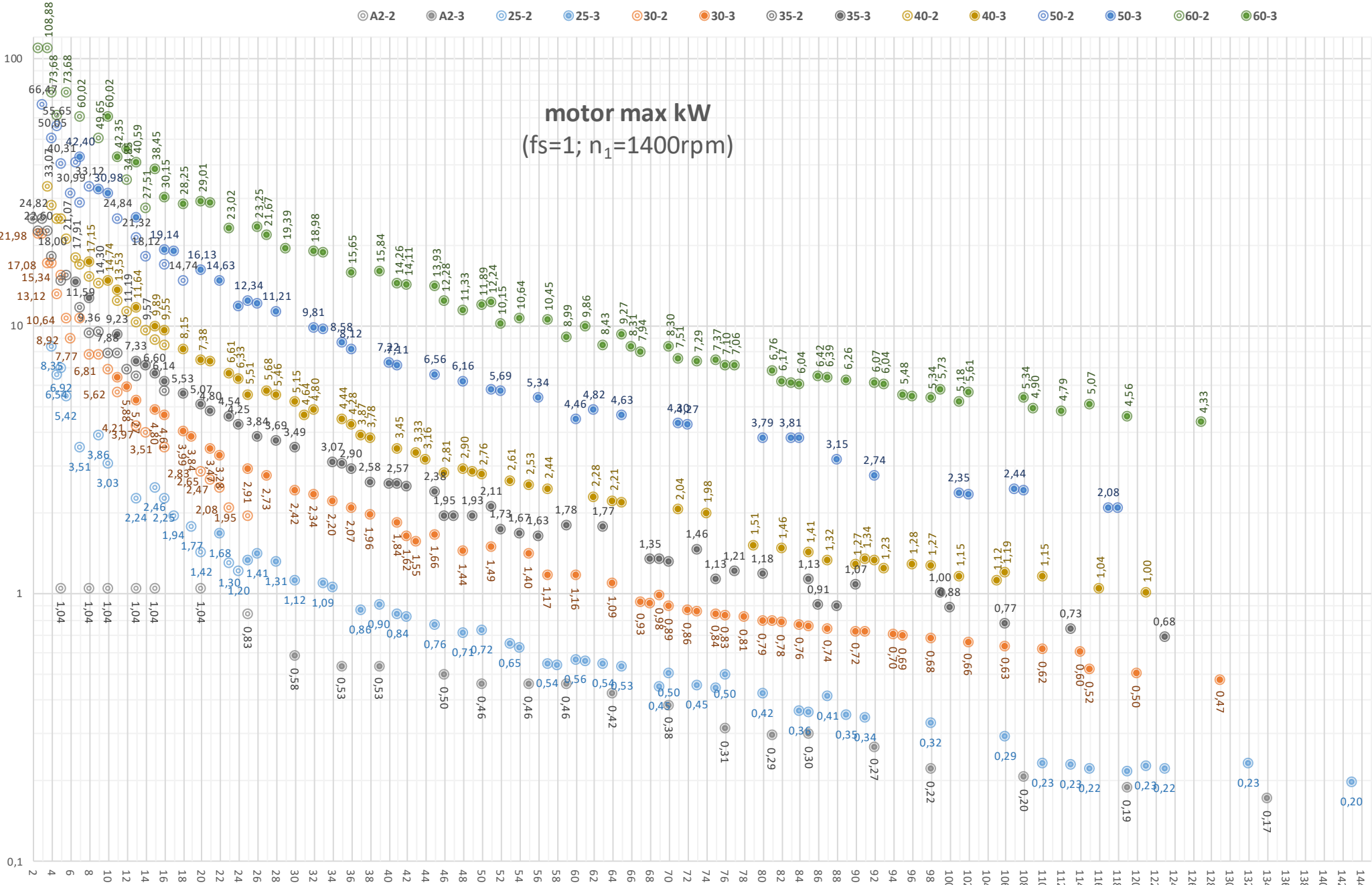
# PMAX KW

(fs = 1; n<sub>1</sub> = 1400rpm)

| i:  | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|-----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|     | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 71  |          |      |          |      |          |      |          |      | 2,04     |      | 4,30     |      | 7,51     |      |
| 72  |          |      |          |      |          | 0,86 |          |      |          |      | 4,27     |      |          |      |
| 73  |          |      |          | 0,45 |          | 0,85 |          | 1,46 |          |      |          |      | 7,29     |      |
| 74  |          |      |          |      |          |      |          |      | 1,98     |      |          |      |          |      |
| 75  |          |      |          | 0,44 |          | 0,84 |          | 1,13 |          |      |          |      | 7,37     |      |
| 76  |          | 0,31 |          | 0,50 |          | 0,83 |          |      |          |      |          |      | 7,10     |      |
| 77  |          |      |          |      |          |      |          | 1,21 |          |      |          |      | 7,06     |      |
| 78  |          |      |          |      |          | 0,81 |          |      |          |      |          |      |          |      |
| 79  |          |      |          |      |          |      |          |      | 1,51     |      |          |      |          |      |
| 80  |          |      |          | 0,42 |          | 0,79 |          | 1,18 |          |      | 3,79     |      |          |      |
| 81  |          | 0,29 |          |      |          | 0,78 |          |      |          |      |          |      | 6,76     |      |
| 82  |          |      |          |      |          | 0,78 |          |      | 1,46     |      |          |      | 6,17     |      |
| 83  |          |      |          |      |          |      |          |      |          |      | 3,81     |      | 6,06     |      |
| 84  |          |      |          | 0,36 |          | 0,76 |          |      |          |      | 3,78     |      | 6,04     |      |
| 85  |          | 0,30 |          | 0,36 |          | 0,76 |          | 1,13 | 1,41     |      |          |      |          |      |
| 86  |          |      |          |      |          |      |          | 0,91 |          |      |          |      | 6,42     |      |
| 87  |          |      |          | 0,41 |          | 0,74 |          |      | 1,32     |      |          |      | 6,39     |      |
| 88  |          |      |          |      |          |      |          | 0,89 |          |      | 3,15     |      |          |      |
| 89  |          |      |          | 0,35 |          |      |          |      |          |      |          |      | 6,26     |      |
| 90  |          |      |          |      |          | 0,72 |          | 1,07 | 1,27     |      |          |      |          |      |
| 91  |          |      |          | 0,34 |          | 0,72 |          |      | 1,34     |      |          |      |          |      |
| 92  |          | 0,27 |          |      |          |      |          |      | 1,32     |      | 2,74     |      | 6,07     |      |
| 93  |          |      |          |      |          |      |          |      | 1,23     |      |          |      | 6,04     |      |
| 94  |          |      |          |      |          | 0,70 |          |      |          |      |          |      |          |      |
| 95  |          |      |          |      |          | 0,69 |          |      |          |      |          |      | 5,48     |      |
| 96  |          |      |          |      |          |      |          |      | 1,28     |      |          |      | 5,42     |      |
| 97  |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 98  |          | 0,22 |          | 0,32 |          | 0,68 |          |      | 1,27     |      |          |      | 5,34     |      |
| 99  |          |      |          |      |          |      |          | 1,00 |          |      |          |      | 5,73     |      |
| 100 |          |      |          |      |          |      |          | 0,88 |          |      |          |      |          |      |
| 101 |          |      |          |      |          |      |          |      | 1,15     |      | 2,35     |      | 5,18     |      |
| 102 |          |      |          |      |          | 0,66 |          |      |          |      | 2,33     |      | 5,61     |      |
| 103 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 104 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 105 |          |      |          |      |          |      |          |      | 1,12     |      |          |      |          |      |
| 106 |          |      |          | 0,29 |          | 0,63 |          | 0,77 | 1,19     |      |          |      |          |      |
| 107 |          |      |          |      |          |      |          |      |          |      | 2,44     |      |          |      |
| 108 |          | 0,20 |          |      |          |      |          |      |          |      | 2,42     |      | 5,34     |      |

| i:  | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|-----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|     | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 109 |          |      |          |      |          |      |          |      |          |      |          |      |          | 4,90 |
| 110 |          |      |          | 0,23 |          | 0,62 |          |      |          | 1,15 |          |      |          |      |
| 111 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 112 |          |      |          |      |          |      |          |      |          |      |          |      |          | 4,79 |
| 113 |          |      |          | 0,23 |          |      |          | 0,73 |          |      |          |      |          |      |
| 114 |          |      |          |      |          | 0,60 |          |      |          |      |          |      |          |      |
| 115 |          |      |          | 0,22 |          | 0,52 |          |      |          |      |          |      |          | 5,07 |
| 116 |          |      |          |      |          |      |          |      | 1,04     |      |          |      |          |      |
| 117 |          |      |          |      |          |      |          |      |          |      | 2,08     |      |          |      |
| 118 |          |      |          |      |          |      |          |      |          |      | 2,07     |      |          |      |
| 119 |          | 0,19 |          | 0,22 |          |      |          |      |          |      |          |      |          | 4,56 |
| 120 |          |      |          |      |          | 0,50 |          |      |          |      |          |      |          |      |
| 121 |          |      |          | 0,23 |          |      |          |      |          | 1,00 |          |      |          |      |
| 122 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 123 |          |      |          | 0,22 |          |      |          | 0,68 |          |      |          |      |          |      |
| 124 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 125 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 126 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 127 |          |      |          |      |          |      |          |      |          |      |          |      |          | 4,33 |
| 128 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 129 |          |      |          |      |          | 0,47 |          |      |          |      |          |      |          |      |
| 130 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 131 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 132 |          |      |          | 0,23 |          |      |          |      |          |      |          |      |          |      |
| 133 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 134 |          | 0,17 |          |      |          |      |          |      |          |      |          |      |          |      |
| 135 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 136 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 137 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 138 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 139 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 140 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 141 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 142 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 143 |          |      |          | 0,20 |          |      |          |      |          |      |          |      |          |      |

PMAX KW



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# PERFORMANCE TABLE



input connection **B14** IEC 72-1

| A2 | ratio i: |       | input |             |      |            | output               |             |                      |                     | 63                   | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|----|----------|-------|-------|-------------|------|------------|----------------------|-------------|----------------------|---------------------|----------------------|----|----|----|---------|-----|-----|-----|-----|
|    | stages   | rated | real  | kW          | Hp   | motor type | n <sub>1</sub> [rpm] | fs          | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |         |     |     |     |     |
| 3  | 134      | 134,2 |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>1,27</b> | 10                   | 116                 | 11,7                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>0,94</b> | 10                   | 156                 | 15,8                 |    |    |    |         |     |     |     |     |
| 3  | 119      | 119,0 |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>1,39</b> | 11                   | 103                 | 10,4                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,03</b> | 12                   | 139                 | 14,0                 |    |    |    |         |     |     |     |     |
| 3  | 108      | 107,8 |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>1,52</b> | 13                   | 93                  | 9,4                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,13</b> | 13                   | 126                 | 12,7                 |    |    |    |         |     |     |     |     |
| 3  | 98       | 98,1  |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>1,63</b> | 14                   | 85                  | 8,6                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,22</b> | 14                   | 114                 | 11,5                 |    |    |    |         |     |     |     |     |
| 3  | 92       | 92,5  |       | <b>0,13</b> | 0,18 | 71B-8      | 650                  | <b>1,14</b> | 7,0                  | 166                 | 16,8                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 71A-6      | 910                  | <b>1,06</b> | 9,8                  | 164                 | 16,6                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>1,98</b> | 15                   | 80                  | 8,1                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,47</b> | 15                   | 108                 | 10,9                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,07</b> | 15                   | 148                 | 15,0                 |    |    |    |         |     |     |     |     |
| 3  | 85       | 85,1  |       | <b>0,13</b> | 0,18 | 71B-8      | 650                  | <b>1,28</b> | 7,6                  | 153                 | 15,4                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 71A-6      | 910                  | <b>1,18</b> | 10,7                 | 151                 | 15,3                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>2,21</b> | 16                   | 74                  | 7,4                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,64</b> | 16                   | 99                  | 10,0                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,19</b> | 16                   | 137                 | 13,8                 |    |    |    |         |     |     |     |     |
| 3  | 81       | 81,2  |       | <b>0,13</b> | 0,18 | 71B-8      | 650                  | <b>1,26</b> | 8,0                  | 146                 | 14,7                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>2,19</b> | 17                   | 70                  | 7,1                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,63</b> | 17                   | 95                  | 9,5                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,18</b> | 17                   | 130                 | 13,2                 |    |    |    |         |     |     |     |     |
| 3  | 76       | 75,7  |       | <b>0,13</b> | 0,18 | 71B-8      | 650                  | <b>1,34</b> | 8,6                  | 136                 | 13,7                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>2,31</b> | 18                   | 65                  | 6,6                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>1,72</b> | 18                   | 88                  | 8,9                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,25</b> | 19                   | 121                 | 12,3                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>0,84</b> | 19                   | 180                 | 18,1                 |    |    |    |         |     |     |     |     |
| 3  | 70       | 69,6  |       | <b>0,13</b> | 0,18 | 71B-8      | 650                  | <b>1,63</b> | 9,3                  | 125                 | 12,6                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>2,83</b> | 19                   | 60                  | 6,1                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>2,10</b> | 20                   | 81                  | 8,2                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,52</b> | 20                   | 112                 | 11,3                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>1,03</b> | 20                   | 165                 | 16,7                 |    |    |    |         |     |     |     |     |
| 3  | 64       | 64,2  |       | <b>0,13</b> | 0,18 | 71B-8      | 650                  | <b>1,80</b> | 10,1                 | 115                 | 11,6                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>3,11</b> | 21                   | 56                  | 5,6                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>2,31</b> | 22                   | 75                  | 7,5                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,68</b> | 22                   | 103                 | 10,4                 |    |    |    |         |     |     |     |     |
| 3  | 59       | 59,4  |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>1,13</b> | 22                   | 153                 | 15,4                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>3,39</b> | 23                   | 51                  | 5,2                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>2,52</b> | 23                   | 69                  | 7,0                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,83</b> | 24                   | 95                  | 9,6                  |    |    |    |         |     |     |     |     |
| 3  | 55       | 55,2  |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>1,24</b> | 24                   | 141                 | 14,2                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>3,39</b> | 24                   | 48                  | 4,8                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>2,52</b> | 25                   | 64                  | 6,5                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,83</b> | 25                   | 89                  | 8,9                  |    |    |    |         |     |     |     |     |
| 3  | 50       | 50,2  |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>1,24</b> | 25                   | 131                 | 13,2                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>3,39</b> | 27                   | 43                  | 4,4                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>2,52</b> | 28                   | 58                  | 5,9                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,83</b> | 28                   | 81                  | 8,1                  |    |    |    |         |     |     |     |     |
| 3  | 46       | 46,1  |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>1,24</b> | 28                   | 119                 | 12,0                 |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,13</b> | 0,18 | 63A-4      | 1350                 | <b>3,67</b> | 29                   | 40                  | 4,0                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,18</b> | 0,25 | 63B-4      | 1390                 | <b>2,73</b> | 30                   | 54                  | 5,4                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,25</b> | 0,35 | 71A-4      | 1400                 | <b>1,98</b> | 30                   | 74                  | 7,5                  |    |    |    |         |     |     |     |     |
| 3  |          |       |       | <b>0,37</b> | 0,5  | 71B-4      | 1400                 | <b>1,34</b> | 30                   | 109                 | 11,0                 |    |    |    |         |     |     |     |     |

input connection **B14** IEC 72-1

| A2     | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |  |
| 3      | 39       | 39,3 | 0,13  | 0,18 | 63A-4      | 1350                 | 3,96   | 34                   | 34                  | 3,4                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                 | 2,94   | 35                   | 46                  | 4,6                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 2,13   | 36                   | 63                  | 6,4                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 1,44   | 36                   | 93                  | 9,4                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 0,97   | 36                   | 139                 | 14,0                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 35       | 35,3 | 0,13  | 0,18 | 63A-4      | 1350                 | 3,96   | 38                   | 31                  | 3,1                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                 | 2,94   | 39                   | 41                  | 4,1                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 2,13   | 40                   | 57                  | 5,7                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 1,44   | 40                   | 84                  | 8,5                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 0,97   | 40                   | 125                 | 12,6                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 30       | 30,1 | 0,13  | 0,18 | 63A-4      | 1350                 | 4,32   | 45                   | 26                  | 2,6                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                 | 3,21   | 46                   | 35                  | 3,5                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 2,33   | 46                   | 48                  | 4,9                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 1,58   | 46                   | 72                  | 7,2                  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,06   | 46                   | 106                 | 10,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 25       | 24,7 | 0,18  | 0,25 | 63B-4      | 1390                 | 4,58   | 56                   | 29                  | 3,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 3,32   | 57                   | 40                  | 4,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,24   | 57                   | 60                  | 6,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,51   | 57                   | 89                  | 9,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,11   | 57                   | 121                 | 12,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 20       | 19,9 | 0,25  | 0,35 | 71A-4      | 1400                 | 4,16   | 70                   | 33                  | 3,3                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,81   | 70                   | 48                  | 4,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,89   | 70                   | 72                  | 7,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,39   | 70                   | 98                  | 9,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 0,95   | 70                   | 143                 | 14,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 15       | 15,0 | 0,25  | 0,35 | 71A-4      | 1400                 | 4,16   | 93                   | 25                  | 2,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,81   | 93                   | 36                  | 3,7                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,89   | 93                   | 54                  | 5,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,39   | 93                   | 74                  | 7,4                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 0,95   | 93                   | 108                 | 10,9                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 13       | 12,7 | 0,25  | 0,35 | 71A-4      | 1400                 | 4,16   | 110                  | 21                  | 2,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,81   | 110                  | 31                  | 3,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,89   | 110                  | 46                  | 4,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,39   | 110                  | 63                  | 6,3                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 0,95   | 110                  | 92                  | 9,3                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 10       | 10,0 | 0,25  | 0,35 | 71A-4      | 1400                 | 4,16   | 140                  | 16                  | 1,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,81   | 140                  | 24                  | 2,4                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,89   | 140                  | 36                  | 3,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,39   | 140                  | 49                  | 4,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 0,95   | 140                  | 72                  | 7,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 8        | 7,6  | 0,25  | 0,35 | 71A-4      | 1400                 | 4,16   | 185                  | 12                  | 1,3                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,81   | 185                  | 18                  | 1,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,89   | 185                  | 27                  | 2,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,39   | 185                  | 37                  | 3,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 0,95   | 185                  | 55                  | 5,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 5        | 5,0  | 0,75  | 1    | 80A-2      | 2880                 | 2,57   | 572                  | 12                  | 1,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80B-2      | 2890                 | 1,76   | 574                  | 18                  | 1,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,5   | 2,2  | 80C-2      | 2880                 | 1,28   | 572                  | 24                  | 2,4                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 4,16   | 278                  | 8                   | 0,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 2,81   | 278                  | 12                  | 1,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 1,89   | 278                  | 18                  | 1,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,39   | 278                  | 25                  | 2,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 0,95   | 278                  | 36                  | 3,7                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 0,75  | 1    | 80A-2      | 2880                 | 2,57   | 572                  | 12                  | 1,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5  | 80B-2      | 2890                 | 1,76   | 574                  | 18                  | 1,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 1,5      | 2,2  | 80C-2 | 2880 | 1,28       | 572                  | 24     | 2,4                  |                     |                      |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 25     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [KgM] |  |    |    |    |    |         |     |     |     |     |
| 3      | 143   | 142,6    | 0,13 | 0,18  | 63A-4      | 1350                 | 1,46 | 9                    | 123                 | 12,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 1,09 | 10                   | 166                 | 16,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,71 | 10                   | 114                 | 11,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 132   | 131,6    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,27 | 11                   | 153                 | 15,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,92 | 11                   | 211                 | 21,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,63 | 11                   | 106                 | 10,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 123   | 122,9    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,21 | 11                   | 143                 | 14,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,88 | 11                   | 197                 | 19,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,67 | 11                   | 105                 | 10,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 121   | 121,5    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,24 | 11                   | 141                 | 14,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,90 | 12                   | 195                 | 19,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,60 | 11                   | 103                 | 10,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 119   | 119,4    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,19 | 12                   | 139                 | 14,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,86 | 12                   | 192                 | 19,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,64 | 12                   | 100                 | 10,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 115   | 115,1    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,22 | 12                   | 134                 | 13,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,89 | 12                   | 185                 | 18,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,68 | 12                   | 98                  | 9,9                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 113   | 113,4    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,25 | 12                   | 132                 | 13,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,91 | 12                   | 182                 | 18,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 1,72 | 12                   | 95                  | 9,6                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 110   | 110,2    | 0,18 | 0,25  | 63B-4      | 1390                 | 1,28 | 13                   | 128                 | 12,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 0,93 | 13                   | 177                 | 17,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 1,25 | 6,1                  | 190                 | 19,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 106   | 105,9    | 0,18 | 0,25  | 71A-6      | 910                  | 1,16 | 8,6                  | 188                 | 19,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 2,16 | 13                   | 92                  | 9,3                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 1,61 | 13                   | 123                 | 12,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 98    | 97,8     | 0,25 | 0,35  | 71A-4      | 1400                 | 1,17 | 13                   | 170                 | 17,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 1,39 | 6,7                  | 176                 | 17,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,29 | 9,3                  | 174                 | 17,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 91    | 91,3     | 0,13 | 0,18  | 63A-4      | 1350                 | 2,41 | 14                   | 85                  | 8,5                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 1,79 | 14                   | 114                 | 11,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 1,30 | 14                   | 157                 | 15,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 89    | 88,7     | 0,13 | 0,18  | 71B-8      | 650                  | 1,47 | 7,1                  | 164                 | 16,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,36 | 10,0                 | 162                 | 16,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 2,54 | 15                   | 79                  | 8,0                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 87    | 87,1     | 0,18 | 0,25  | 63B-4      | 1390                 | 1,89 | 15                   | 106                 | 10,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 1,37 | 15                   | 146                 | 14,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 0,93 | 15                   | 217                 | 21,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 85    | 84,2     | 0,13 | 0,18  | 71B-8      | 650                  | 1,50 | 7,3                  | 159                 | 16,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,39 | 10,3                 | 158                 | 15,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,00 | 10,3                 | 219                 | 22,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 84    | 84,2     | 0,13 | 0,18  | 63A-4      | 1350                 | 2,59 | 15                   | 77                  | 7,7                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 1,93 | 16                   | 103                 | 10,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 1,40 | 16                   | 142                 | 14,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 80    | 80,4     | 0,37 | 0,5   | 71B-4      | 1400                 | 0,95 | 16                   | 211                 | 21,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 1,77 | 7,5                  | 157                 | 15,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,64 | 10,5                 | 155                 | 15,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 76    | 75,6     | 0,25 | 0,35  | 71B-6      | 910                  | 1,18 | 10,5                 | 215                 | 21,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 3,06 | 16                   | 75                  | 7,6                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 2,28 | 16                   | 101                 | 10,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 75    | 75,0     | 0,25 | 0,35  | 71A-4      | 1400                 | 1,65 | 16                   | 140                 | 14,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,12 | 16                   | 207                 | 20,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 1,77 | 7,5                  | 157                 | 15,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 73    | 72,9     | 0,18 | 0,25  | 71A-6      | 910                  | 1,64 | 10,5                 | 155                 | 15,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,18 | 10,5                 | 215                 | 21,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 3,06 | 16                   | 75                  | 7,6                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 70    | 69,7     | 0,18 | 0,25  | 63B-4      | 1390                 | 2,28 | 16                   | 101                 | 10,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 1,65 | 16                   | 140                 | 14,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,12 | 16                   | 207                 | 20,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 69    | 69,2     | 0,13 | 0,18  | 71B-8      | 650                  | 1,77 | 7,5                  | 157                 | 15,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,64 | 10,5                 | 155                 | 15,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,18 | 10,5                 | 215                 | 21,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 65    | 65,1     | 0,13 | 0,18  | 63A-4      | 1350                 | 3,06 | 16                   | 75                  | 7,6                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 2,28 | 16                   | 101                 | 10,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 1,65 | 16                   | 140                 | 14,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 63    | 63,1     | 0,37 | 0,5   | 71B-4      | 1400                 | 1,12 | 16                   | 207                 | 20,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 1,77 | 7,5                  | 157                 | 15,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,64 | 10,5                 | 155                 | 15,6                 |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 25     | ratio i: |      | input |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 85       | 85,5 | 0,13  | 0,18 | 71B-8      | 650                     | 1,54   | 7,6                     | 154                    | 15,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 71A-6      | 910                     | 1,43   | 10,7                    | 152                    | 15,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71B-6      | 910                     | 1,03   | 10,7                    | 211                    | 21,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 2,67   | 16                      | 74                     | 7,5                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 1,98   | 16                      | 100                    | 10,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,44   | 16                      | 137                    | 13,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 0,97   | 16                      | 203                    | 20,5                    |    |    |    |    |         |     |     |     |     |
| 3      | 84       | 84,2 | 0,13  | 0,18 | 71B-8      | 650                     | 1,56   | 7,7                     | 151                    | 15,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 71A-6      | 910                     | 1,44   | 10,8                    | 150                    | 15,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71B-6      | 910                     | 1,04   | 10,8                    | 208                    | 21,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 2,70   | 16                      | 73                     | 7,4                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,01   | 17                      | 98                     | 9,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,45   | 17                      | 135                    | 13,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 0,98   | 17                      | 200                    | 20,2                    |    |    |    |    |         |     |     |     |     |
| 3      | 80       | 80,4 | 0,13  | 0,18 | 71B-8      | 650                     | 1,80   | 8,1                     | 144                    | 14,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 71A-6      | 910                     | 1,67   | 11,3                    | 143                    | 14,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71B-6      | 910                     | 1,20   | 11,3                    | 199                    | 20,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,11   | 17                      | 70                     | 7,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,31   | 17                      | 94                     | 9,4                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,68   | 17                      | 129                    | 13,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,13   | 17                      | 191                    | 19,3                    |    |    |    |    |         |     |     |     |     |
| 3      | 76       | 75,6 | 0,13  | 0,18 | 71B-8      | 650                     | 2,12   | 8,6                     | 136                    | 13,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 71A-6      | 910                     | 1,97   | 12,0                    | 134                    | 13,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71B-6      | 910                     | 1,42   | 12,0                    | 187                    | 18,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,67   | 18                      | 65                     | 6,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,73   | 18                      | 88                     | 8,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,98   | 19                      | 121                    | 12,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,34   | 19                      | 179                    | 18,1                    |    |    |    |    |         |     |     |     |     |
| 3      | 75       | 75,0 | 0,13  | 0,18 | 71B-8      | 650                     | 1,89   | 8,7                     | 135                    | 13,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,28   | 18                      | 65                     | 6,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,44   | 19                      | 87                     | 8,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,77   | 19                      | 120                    | 12,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,19   | 19                      | 178                    | 18,0                    |    |    |    |    |         |     |     |     |     |
| 3      | 73       | 72,9 | 0,13  | 0,18 | 71B-8      | 650                     | 1,94   | 8,9                     | 131                    | 13,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,35   | 19                      | 63                     | 6,4                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,49   | 19                      | 85                     | 8,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,81   | 19                      | 117                    | 11,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,22   | 19                      | 173                    | 17,5                    |    |    |    |    |         |     |     |     |     |
| 3      | 70       | 69,7 | 0,13  | 0,18 | 71B-8      | 650                     | 2,15   | 9,3                     | 125                    | 12,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,72   | 19                      | 60                     | 6,1                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,77   | 20                      | 81                     | 8,2                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 2,01   | 20                      | 112                    | 11,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,36   | 20                      | 166                    | 16,7                    |    |    |    |    |         |     |     |     |     |
| 3      | 69       | 69,2 | 0,13  | 0,18 | 71B-8      | 650                     | 1,92   | 9,4                     | 124                    | 12,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,32   | 19                      | 60                     | 6,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,47   | 20                      | 81                     | 8,1                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 1,79   | 20                      | 111                    | 11,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,21   | 20                      | 164                    | 16,6                    |    |    |    |    |         |     |     |     |     |
| 3      | 65       | 65,1 | 0,13  | 0,18 | 71B-8      | 650                     | 2,27   | 10,0                    | 117                    | 11,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 1,74   | 10,6                    | 153                    | 15,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 1,25   | 10,6                    | 212                    | 21,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,13  | 0,18 | 63A-4      | 1350                    | 3,93   | 21                      | 56                     | 5,7                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 63B-4      | 1390                    | 2,92   | 21                      | 76                     | 7,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 2,12   | 22                      | 104                    | 10,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 1,43   | 22                      | 155                    | 15,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 0,96   | 22                      | 230                    | 23,2                    |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 25     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 63    | 63,3     | 0,13 | 0,18  | 71B-8      | 650                  | 2,32 | 10,3                 | 114                 | 11,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 1,78 | 10,9                 | 148                 | 15,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,28 | 10,9                 | 206                 | 20,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 4,02 | 21                   | 55                  | 5,5                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 2,99 | 22                   | 74                  | 7,4                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,17 | 22                   | 102                 | 10,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,46 | 22                   | 150                 | 15,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 0,98 | 22                   | 223                 | 22,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 61    | 61,0     | 0,13 | 0,18  | 63A-4      | 1350                 | 4,13 | 22                   | 53                  | 5,3                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 3,07 | 23                   | 71                  | 7,2                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,23 | 23                   | 98                  | 9,9                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,51 | 23                   | 145                 | 14,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 60    | 60,1     | 0,55 | 0,75  | 80A-4      | 1400                 | 1,01 | 23                   | 215                 | 21,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 4,18 | 22                   | 52                  | 5,2                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 3,11 | 23                   | 70                  | 7,1                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,25 | 23                   | 96                  | 9,7                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 58    | 57,7     | 0,37 | 0,5   | 71B-4      | 1400                 | 1,52 | 23                   | 143                 | 14,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,02 | 23                   | 212                 | 21,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 3,98 | 23                   | 50                  | 5,0                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 2,96 | 24                   | 67                  | 6,8                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 57    | 57,2     | 0,25 | 0,35  | 71A-4      | 1400                 | 2,15 | 24                   | 93                  | 9,3                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,45 | 24                   | 137                 | 13,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 0,98 | 24                   | 204                 | 20,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 4,01 | 24                   | 50                  | 5,0                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 54    | 54,5     | 0,18 | 0,25  | 63B-4      | 1390                 | 2,98 | 24                   | 67                  | 6,7                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,16 | 24                   | 92                  | 9,3                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,46 | 24                   | 136                 | 13,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 0,98 | 24                   | 202                 | 20,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 53    | 52,5     | 0,13 | 0,18  | 63A-4      | 1350                 | 4,63 | 25                   | 47                  | 4,8                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 3,44 | 26                   | 63                  | 6,4                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,50 | 26                   | 87                  | 8,8                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,69 | 26                   | 129                 | 13,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 50    | 49,6     | 0,55 | 0,75  | 80A-4      | 1400                 | 1,13 | 26                   | 192                 | 19,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 63A-4      | 1350                 | 4,79 | 26                   | 45                  | 4,6                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 3,56 | 26                   | 61                  | 6,2                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,58 | 27                   | 84                  | 8,5                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 48    | 48,3     | 0,37 | 0,5   | 71B-4      | 1400                 | 1,74 | 27                   | 125                 | 12,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,17 | 27                   | 185                 | 18,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 3,98 | 28                   | 58                  | 5,8                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,89 | 28                   | 80                  | 8,0                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 45    | 45,2     | 0,37 | 0,5   | 71B-4      | 1400                 | 1,95 | 28                   | 118                 | 11,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,31 | 28                   | 175                 | 17,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 0,96 | 28                   | 239                 | 24,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 63B-4      | 1390                 | 3,92 | 29                   | 56                  | 5,7                  |  |    |    |    |    |         |     |     |     |     |
| 3      | 45    | 45,2     | 0,25 | 0,35  | 71A-4      | 1400                 | 2,84 | 29                   | 77                  | 7,8                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,92 | 29                   | 115                 | 11,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,29 | 29                   | 170                 | 17,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 0,95 | 29                   | 232                 | 23,5                 |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 25     | ratio i: |      | input |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 43       | 42,8 | 0,18  | 0,25 | 63B-4      | 1390                    | 4,48   | 33                      | 50                     | 5,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,25   | 33                      | 69                     | 6,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,20   | 33                      | 102                    | 10,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,48   | 33                      | 151                    | 15,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,08   | 33                      | 206                    | 20,8                    |    |    |    |    |         |     |     |     |     |
| 3      | 42       | 41,9 | 0,18  | 0,25 | 63B-4      | 1390                    | 4,61   | 33                      | 49                     | 4,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,35   | 33                      | 67                     | 6,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,26   | 33                      | 100                    | 10,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,52   | 33                      | 148                    | 14,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,12   | 33                      | 202                    | 20,4                    |    |    |    |    |         |     |     |     |     |
| 3      | 39       | 39,2 | 0,18  | 0,25 | 63B-4      | 1390                    | 4,96   | 35                      | 46                     | 4,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,60   | 36                      | 63                     | 6,3                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,43   | 36                      | 93                     | 9,4                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,63   | 36                      | 138                    | 14,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,20   | 36                      | 189                    | 19,0                    |    |    |    |    |         |     |     |     |     |
| 3      | 37       | 37,5 | 0,18  | 0,25 | 63B-4      | 1390                    | 4,77   | 37                      | 44                     | 4,4                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,46   | 37                      | 60                     | 6,1                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,34   | 37                      | 89                     | 9,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,57   | 37                      | 132                    | 13,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,15   | 37                      | 180                    | 18,2                    |    |    |    |    |         |     |     |     |     |
| 3      | 34       | 33,8 | 0,25  | 0,35 | 71A-4      | 1400                    | 4,21   | 41                      | 54                     | 5,5                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,84   | 41                      | 80                     | 8,1                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,91   | 41                      | 119                    | 12,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,40   | 41                      | 163                    | 16,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 0,96   | 41                      | 238                    | 24,0                    |    |    |    |    |         |     |     |     |     |
| 3      | 33       | 32,5 | 1,1   | 1,5  | 90S-4      | 1400                    | 0,96   | 41                      | 238                    | 24,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 4,36   | 43                      | 52                     | 5,3                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,95   | 43                      | 77                     | 7,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,98   | 43                      | 115                    | 11,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,45   | 43                      | 157                    | 15,8                    |    |    |    |    |         |     |     |     |     |
| 3      | 30       | 29,9 | 1,1   | 1,5  | 80C-4      | 1400                    | 0,99   | 43                      | 230                    | 23,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 0,99   | 43                      | 230                    | 23,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 4,47   | 47                      | 48                     | 4,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 3,02   | 47                      | 71                     | 7,2                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,03   | 47                      | 106                    | 10,7                    |    |    |    |    |         |     |     |     |     |
| 3      | 28       | 28,0 | 0,75  | 1    | 80B-4      | 1400                    | 1,49   | 47                      | 144                    | 14,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,01   | 47                      | 211                    | 21,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,01   | 47                      | 211                    | 21,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 5,24   | 50                      | 45                     | 4,5                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 3,54   | 50                      | 67                     | 6,7                     |    |    |    |    |         |     |     |     |     |
| 3      | 26       | 25,9 | 0,55  | 0,75 | 80A-4      | 1400                    | 2,38   | 50                      | 99                     | 10,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,75   | 50                      | 135                    | 13,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,19   | 50                      | 198                    | 20,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,19   | 50                      | 198                    | 20,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 5,63   | 54                      | 42                     | 4,2                     |    |    |    |    |         |     |     |     |     |
| 3      | 25       | 24,8 | 0,37  | 0,5  | 71B-4      | 1400                    | 3,81   | 54                      | 62                     | 6,2                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,56   | 54                      | 92                     | 9,2                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,88   | 54                      | 125                    | 12,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,28   | 54                      | 183                    | 18,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,28   | 54                      | 183                    | 18,5                    |    |    |    |    |         |     |     |     |     |
| 3      | 25       | 24,8 | 0,25  | 0,35 | 71A-4      | 1400                    | 5,32   | 56                      | 40                     | 4,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 3,59   | 56                      | 59                     | 5,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,42   | 56                      | 88                     | 8,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,77   | 56                      | 119                    | 12,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,21   | 56                      | 175                    | 17,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,21   | 56                      | 175                    | 17,7                    |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 25     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 2      | 24    | 24,4     | 0,25 | 0,35  | 71A-4      | 1400                 | 4,81 | 57                   | 40                  | 4,0                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 3,25 | 57                   | 59                  | 6,0                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 2,19 | 57                   | 88                  | 8,9                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,60 | 57                   | 120                 | 12,1                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 1,09 | 57                   | 176                 | 17,8                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 23    | 22,6     | 0,25 | 0,35  | 71A-4      | 1400                 | 5,19 | 62                   | 37                  | 3,7                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 3,50 | 62                   | 55                  | 5,5                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 2,36 | 62                   | 81                  | 8,2                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,73 | 62                   | 111                 | 11,2                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 1,18 | 62                   | 163                 | 16,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 22    | 21,5     | 0,37 | 0,5   | 71B-4      | 1400                 | 4,53 | 65                   | 51                  | 5,2                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 3,05 | 65                   | 76                  | 7,7                  |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 2,24 | 65                   | 104                 | 10,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 1,52 | 65                   | 152                 | 15,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 1,52 | 65                   | 152                 | 15,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 20    | 20,5     | 1,5  | 2     | 90L-4      | 1410                 | 1,13 | 65                   | 206                 | 20,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 0,89 | 66                   | 260                 | 26,2                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 5,69 | 68                   | 34                  | 3,4                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 3,84 | 68                   | 50                  | 5,0                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 2,59 | 68                   | 74                  | 7,4                  |  |    |    |    |    |         |     |     |     |     |
| 2      | 19    | 18,5     | 0,75 | 1     | 80B-4      | 1400                 | 1,90 | 68                   | 101                 | 10,1                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 1,29 | 68                   | 147                 | 14,9                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 4,78 | 75                   | 45                  | 4,5                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 3,21 | 75                   | 67                  | 6,7                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 2,36 | 75                   | 91                  | 9,2                  |  |    |    |    |    |         |     |     |     |     |
| 2      | 17    | 16,8     | 1,1  | 1,5   | 80C-4      | 1400                 | 1,61 | 75                   | 134                 | 13,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 5,23 | 83                   | 41                  | 4,1                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 3,52 | 83                   | 61                  | 6,1                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 2,58 | 83                   | 83                  | 8,3                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 1,76 | 83                   | 121                 | 12,2                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 16    | 16,1     | 0,55 | 0,75  | 80A-4      | 1400                 | 4,09 | 87                   | 58                  | 5,9                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 3,00 | 87                   | 79                  | 8,0                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,04 | 87                   | 116                 | 11,7                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 4,48 | 96                   | 53                  | 5,3                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 3,29 | 96                   | 72                  | 7,2                  |  |    |    |    |    |         |     |     |     |     |
| 2      | 15    | 14,6     | 1,1  | 1,5   | 80C-4      | 1400                 | 2,24 | 96                   | 105                 | 10,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 2,24 | 96                   | 105                 | 10,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 1,65 | 97                   | 142                 | 14,4                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,31 | 97                   | 180                 | 18,1                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 4,07 | 110                  | 46                  | 4,6                  |  |    |    |    |    |         |     |     |     |     |
| 2      | 13    | 12,7     | 0,75 | 1     | 80B-4      | 1400                 | 2,99 | 110                  | 62                  | 6,3                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,04 | 110                  | 91                  | 9,2                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 2,04 | 110                  | 91                  | 9,2                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 1,50 | 111                  | 124                 | 12,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,19 | 112                  | 156                 | 15,8                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 10    | 10,4     | 2,2  | 3     | 100LA-4    | 1420                 | 1,03 | 112                  | 180                 | 18,2                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 5,51 | 134                  | 38                  | 3,8                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 4,04 | 134                  | 51                  | 5,2                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,76 | 134                  | 75                  | 7,6                  |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 2,76 | 134                  | 75                  | 7,6                  |  |    |    |    |    |         |     |     |     |     |
| 2      | 10    | 10,4     | 1,5  | 2     | 90L-4      | 1410                 | 2,04 | 135                  | 102                 | 10,3                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,61 | 136                  | 128                 | 12,9                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,40 | 136                  | 148                 | 14,9                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,02 | 136                  | 202                 | 20,4                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,02 | 136                  | 202                 | 20,4                 |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 25     | ratio i: |      | input |     |            |                      | output         |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|-----|------------|----------------------|----------------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp  | motor type | n <sub>1</sub> [rpm] | f <sub>s</sub> | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |  |
| 2      | 9        | 9,0  | 0,75  | 1   | 80B-4      | 1400                 | 5,15           | 155                  | 44                  | 4,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5 | 80C-4      | 1400                 | 3,51           | 155                  | 65                  | 6,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 3,51           | 155                  | 65                  | 6,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 2,59           | 156                  | 88                  | 8,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,06           | 157                  | 111                 | 11,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 1,78           | 157                  | 128                 | 13,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,31           | 157                  | 175                 | 17,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 0,98           | 157                  | 234                 | 23,6                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 7        | 6,8  | 0,75  | 1   | 80B-4      | 1400                 | 4,68           | 205                  | 34                  | 3,4                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5 | 80C-4      | 1400                 | 3,19           | 205                  | 49                  | 5,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 3,19           | 205                  | 49                  | 5,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 2,35           | 206                  | 67                  | 6,7                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 1,87           | 207                  | 84                  | 8,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 1,62           | 208                  | 97                  | 9,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,19           | 208                  | 133                 | 13,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 0,89           | 208                  | 177                 | 17,8                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 5,5      | 5,6  | 3     | 4   | 100L-2     | 2880                 | 2,16           | 421                  | 65                  | 6,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 1,63           | 423                  | 87                  | 8,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 1,18           | 421                  | 120                 | 12,1                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5 | 80C-4      | 1400                 | 4,93           | 249                  | 41                  | 4,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 4,93           | 249                  | 41                  | 4,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 3,64           | 251                  | 55                  | 5,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,88           | 252                  | 69                  | 7,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,50           | 253                  | 80                  | 8,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 5        | 4,9  | 3     | 4   | 100LB-4    | 1420                 | 1,83           | 253                  | 109                 | 11,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,37           | 253                  | 145                 | 14,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,12           | 258                  | 178                 | 17,9                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100L-2     | 2880                 | 3,34           | 512                  | 54                  | 5,4                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 2,52           | 514                  | 71                  | 7,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 1,82           | 512                  | 98                  | 9,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 4,65           | 289                  | 48                  | 4,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 3,68           | 290                  | 60                  | 6,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 4,5      | 4,6  | 2,2   | 3   | 100LA-4    | 1420                 | 3,19           | 291                  | 69                  | 7,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,34           | 291                  | 95                  | 9,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,75           | 291                  | 126                 | 12,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,43           | 297                  | 154                 | 15,6                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100L-2     | 2880                 | 4,27           | 590                  | 47                  | 4,7                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 3,21           | 592                  | 62                  | 6,2                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 2,33           | 590                  | 85                  | 8,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 4,39           | 306                  | 45                  | 4,5                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 4        | 4,0  | 1,9   | 2,6 | 90LB-4     | 1415                 | 3,48           | 307                  | 57                  | 5,7                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 3,01           | 308                  | 66                  | 6,6                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,21           | 308                  | 89                  | 9,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,66           | 308                  | 119                 | 12,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,35           | 315                  | 146                 | 14,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100L-2     | 2880                 | 4,03           | 625                  | 44                  | 4,4                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 3,04           | 627                  | 59                  | 5,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 2,20           | 625                  | 81                  | 8,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      | 4        | 4,0  | 1,9   | 2,6 | 90LB-4     | 1415                 | 4,44           | 354                  | 49                  | 5,0                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 3,85           | 355                  | 57                  | 5,7                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,82           | 355                  | 78                  | 7,8                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 2,12           | 355                  | 103                 | 10,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,73           | 363                  | 127                 | 12,8                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 3     | 4   | 100L-2     | 2880                 | 5,16           | 720                  | 38                  | 3,9                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 3,88           | 723                  | 51                  | 5,1                  |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 2,81           | 720                  | 70                  | 7,1                  |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

input connection **B5** IEC 72-1

| 30     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 129   | 129,0    | 0,13 | 0,18  | 71B-8      | 650                  | 2,03 | 5,0                  | 232                 | 23,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 1,56 | 5,4                  | 302                 | 30,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,12 | 5,4                  | 420                 | 42,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,89 | 7,1                  | 229                 | 23,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,36 | 7,1                  | 318                 | 32,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 1,90 | 11                   | 207                 | 20,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,28 | 11                   | 307                 | 30,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 0,86 | 11                   | 456                 | 46,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 120   | 120,2    | 0,13 | 0,18  | 71B-8      | 650                  | 2,15 | 5,4                  | 216                 | 21,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 1,65 | 5,7                  | 282                 | 28,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,19 | 5,7                  | 391                 | 39,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 1,99 | 7,6                  | 214                 | 21,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,43 | 7,6                  | 297                 | 29,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,01 | 12                   | 193                 | 19,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,36 | 12                   | 285                 | 28,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 0,91 | 12                   | 424                 | 42,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 115   | 114,9    | 0,13 | 0,18  | 71B-8      | 650                  | 2,23 | 5,7                  | 206                 | 20,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 1,71 | 6,0                  | 269                 | 27,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,23 | 6,0                  | 374                 | 37,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 2,06 | 7,9                  | 204                 | 20,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,49 | 7,9                  | 284                 | 28,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,03 | 8,1                  | 411                 | 41,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,08 | 12                   | 184                 | 18,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,40 | 12                   | 273                 | 27,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 114   | 114,1    | 0,55 | 0,75  | 80A-4      | 1400                 | 0,94 | 12                   | 406                 | 40,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 2,57 | 5,7                  | 205                 | 20,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 1,97 | 6,1                  | 267                 | 27,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,42 | 6,1                  | 371                 | 37,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 2,38 | 8,0                  | 203                 | 20,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,72 | 8,0                  | 282                 | 28,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,18 | 8,2                  | 408                 | 41,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,40 | 12                   | 183                 | 18,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 110   | 110,0    | 0,37 | 0,5   | 71B-4      | 1400                 | 1,62 | 12                   | 271                 | 27,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,09 | 12                   | 403                 | 40,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 2,65 | 5,9                  | 198                 | 19,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 2,03 | 6,3                  | 258                 | 26,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,46 | 6,3                  | 358                 | 36,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 2,46 | 8,3                  | 195                 | 19,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,77 | 8,3                  | 271                 | 27,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,22 | 8,5                  | 393                 | 39,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 106   | 106,3    | 0,25 | 0,35  | 71A-4      | 1400                 | 2,47 | 13                   | 177                 | 17,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,67 | 13                   | 261                 | 26,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,12 | 13                   | 388                 | 39,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,13 | 0,18  | 71B-8      | 650                  | 2,72 | 6,1                  | 191                 | 19,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 80A-8      | 690                  | 2,08 | 6,5                  | 249                 | 25,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,50 | 6,5                  | 346                 | 34,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 2,52 | 8,6                  | 189                 | 19,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,81 | 8,6                  | 263                 | 26,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,25 | 8,8                  | 380                 | 38,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,53 | 13                   | 171                 | 17,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,71 | 13                   | 253                 | 25,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,15 | 13                   | 375                 | 37,9                 |  |    |    |    |    |         |     |     |     |     |

| 30     | ratio i: |       | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|-------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real  | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 102      | 101,6 | 0,13  | 0,18 | 71B-8      | 650                  | 2,81   | 6,4                  | 183                 | 18,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 80A-8      | 690                  | 2,16   | 6,8                  | 238                 | 24,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 80B-8      | 690                  | 1,55   | 6,8                  | 331                 | 33,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 71A-6      | 910                  | 2,61   | 9,0                  | 181                 | 18,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71B-6      | 910                  | 1,88   | 9,0                  | 251                 | 25,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,50 | 80A-6      | 930                  | 1,30   | 9,2                  | 363                 | 36,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71A-4      | 1400                 | 2,63   | 14                   | 163                 | 16,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,5  | 71B-4      | 1400                 | 1,77   | 14                   | 241                 | 24,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 80A-4      | 1400                 | 1,19   | 14                   | 359                 | 36,2                 |    |    |    |    |         |     |     |     |     |
| 3      | 98       | 97,9  | 0,13  | 0,18 | 71B-8      | 650                  | 2,90   | 6,6                  | 176                 | 17,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 80A-8      | 690                  | 2,22   | 7,1                  | 229                 | 23,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 80B-8      | 690                  | 1,60   | 7,1                  | 319                 | 32,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 71A-6      | 910                  | 2,69   | 9,3                  | 174                 | 17,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71B-6      | 910                  | 1,94   | 9,3                  | 242                 | 24,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,50 | 80A-6      | 930                  | 1,34   | 9,5                  | 350                 | 35,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71A-4      | 1400                 | 2,71   | 14                   | 157                 | 15,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,5  | 71B-4      | 1400                 | 1,83   | 14                   | 233                 | 23,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 80A-4      | 1400                 | 1,23   | 14                   | 346                 | 34,9                 |    |    |    |    |         |     |     |     |     |
| 3      | 95       | 94,6  | 0,13  | 0,18 | 71B-8      | 650                  | 2,97   | 6,9                  | 170                 | 17,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 80A-8      | 690                  | 2,28   | 7,3                  | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 80B-8      | 690                  | 1,64   | 7,3                  | 308                 | 31,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 71A-6      | 910                  | 2,76   | 9,6                  | 168                 | 17,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71B-6      | 910                  | 1,98   | 9,6                  | 234                 | 23,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,50 | 80A-6      | 930                  | 1,37   | 9,8                  | 338                 | 34,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71A-4      | 1400                 | 2,78   | 15                   | 152                 | 15,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,5  | 71B-4      | 1400                 | 1,88   | 15                   | 225                 | 22,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 80A-4      | 1400                 | 1,26   | 15                   | 334                 | 33,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 94       | 93,8  | 0,13  | 0,18 | 71B-8      | 650                  | 2,99   | 6,9                  | 169                 | 17,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 80A-8      | 690                  | 2,30   | 7,4                  | 220                 | 22,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 80B-8      | 690                  | 1,65   | 7,4                  | 305                 | 30,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 71A-6      | 910                  | 2,77   | 9,7                  | 167                 | 16,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71B-6      | 910                  | 2,00   | 9,7                  | 232                 | 23,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,50 | 80A-6      | 930                  | 1,38   | 9,9                  | 335                 | 33,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71A-4      | 1400                 | 2,79   | 15                   | 151                 | 15,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,5  | 71B-4      | 1400                 | 1,89   | 15                   | 223                 | 22,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 80A-4      | 1400                 | 1,27   | 15                   | 331                 | 33,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 91       | 91,2  | 0,13  | 0,18 | 71B-8      | 650                  | 3,07   | 7,1                  | 164                 | 16,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 80A-8      | 690                  | 2,35   | 7,6                  | 214                 | 21,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 80B-8      | 690                  | 1,69   | 7,6                  | 297                 | 29,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 71A-6      | 910                  | 2,84   | 10,0                 | 162                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71B-6      | 910                  | 2,05   | 10,0                 | 225                 | 22,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,50 | 80A-6      | 930                  | 1,41   | 10,2                 | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71A-4      | 1400                 | 2,86   | 15                   | 146                 | 14,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,5  | 71B-4      | 1400                 | 1,93   | 15                   | 217                 | 21,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 80A-4      | 1400                 | 1,30   | 15                   | 322                 | 32,5                 |    |    |    |    |         |     |     |     |     |
| 3      | 90       | 90,4  | 0,75  | 1    | 80B-4      | 1400                 | 0,95   | 15                   | 439                 | 44,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,13  | 0,18 | 71B-8      | 650                  | 3,09   | 7,2                  | 163                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 80A-8      | 690                  | 2,37   | 7,6                  | 212                 | 21,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 80B-8      | 690                  | 1,70   | 7,6                  | 295                 | 29,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,18  | 0,25 | 71A-6      | 910                  | 2,86   | 10,1                 | 161                 | 16,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71B-6      | 910                  | 2,06   | 10,1                 | 223                 | 22,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,50 | 80A-6      | 930                  | 1,42   | 10,3                 | 323                 | 32,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,25  | 0,35 | 71A-4      | 1400                 | 2,88   | 15                   | 145                 | 14,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,37  | 0,5  | 71B-4      | 1400                 | 1,95   | 15                   | 215                 | 21,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 90       | 90,4  | 0,55  | 0,75 | 80A-4      | 1400                 | 1,31   | 15                   | 319                 | 32,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 80B-4      | 1400                 | 0,96   | 15                   | 435                 | 43,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       |       |      |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |



input connection **B5** IEC 72-1

| 30     | ratio i: |      | input |      |            |                         | output         |                         |                        |                         |    |    |    |    |         |     |     |     |     |  |
|--------|----------|------|-------|------|------------|-------------------------|----------------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | f <sub>s</sub> | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
| 3      | 76       | 75,5 | 0,13  | 0,18 | 71B-8      | 650                     | 3,54           | 8,6                     | 136                    | 13,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 2,72           | 9,1                     | 177                    | 17,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 1,96           | 9,1                     | 246                    | 24,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,31           | 19                      | 121                    | 12,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,24           | 19                      | 179                    | 18,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,50           | 19                      | 267                    | 26,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,10           | 19                      | 364                    | 36,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 75       | 74,5 | 0,13  | 0,18 | 71B-8      | 650                     | 3,59           | 8,7                     | 134                    | 13,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 2,75           | 9,3                     | 175                    | 17,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 1,98           | 9,3                     | 243                    | 24,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,35           | 19                      | 120                    | 12,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,26           | 19                      | 177                    | 17,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,52           | 19                      | 263                    | 26,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,12           | 19                      | 359                    | 36,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 73       | 72,8 | 0,13  | 0,18 | 71B-8      | 650                     | 3,66           | 8,9                     | 131                    | 13,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 2,80           | 9,5                     | 171                    | 17,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,02           | 9,5                     | 237                    | 23,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,41           | 19                      | 117                    | 11,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,31           | 19                      | 173                    | 17,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,55           | 19                      | 257                    | 26,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,14           | 19                      | 351                    | 35,4                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 72       | 71,9 | 0,13  | 0,18 | 71B-8      | 650                     | 3,70           | 9,1                     | 129                    | 13,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 2,84           | 9,6                     | 169                    | 17,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,04           | 9,6                     | 234                    | 23,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,45           | 19                      | 115                    | 11,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,33           | 19                      | 171                    | 17,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,57           | 19                      | 254                    | 25,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,15           | 19                      | 346                    | 34,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 70       | 69,8 | 0,13  | 0,18 | 71B-8      | 650                     | 3,81           | 9,3                     | 125                    | 12,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 2,92           | 9,9                     | 164                    | 16,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,11           | 9,9                     | 227                    | 22,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,56           | 20                      | 112                    | 11,3                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,41           | 20                      | 166                    | 16,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,62           | 20                      | 246                    | 24,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,19           | 20                      | 336                    | 33,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 69       | 69,2 | 0,13  | 0,18 | 71B-8      | 650                     | 4,21           | 9,4                     | 124                    | 12,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 3,23           | 10,0                    | 162                    | 16,4                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,32           | 10,0                    | 225                    | 22,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,93           | 20                      | 111                    | 11,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,66           | 20                      | 164                    | 16,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,79           | 20                      | 244                    | 24,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,31           | 20                      | 333                    | 33,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 68       | 67,6 | 0,13  | 0,18 | 71B-8      | 650                     | 3,92           | 9,6                     | 121                    | 12,3                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 3,01           | 10,2                    | 158                    | 16,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,16           | 10,2                    | 220                    | 22,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,66           | 21                      | 108                    | 10,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,47           | 21                      | 161                    | 16,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,66           | 21                      | 239                    | 24,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,22           | 21                      | 325                    | 32,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 67       | 66,8 | 0,13  | 0,18 | 71B-8      | 650                     | 3,98           | 9,7                     | 120                    | 12,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                     | 3,05           | 10,3                    | 156                    | 15,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,19           | 10,3                    | 217                    | 21,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                    | 3,71           | 21                      | 107                    | 10,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                    | 2,51           | 21                      | 159                    | 16,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 1,69           | 21                      | 236                    | 23,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,24           | 21                      | 321                    | 32,4                    |    |    |    |    |         |     |     |     |     |  |



input connection **B5** IEC 72-1

| 30     | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 41       | 40,8 | 0,37  | 0,5  | 71B-4      | 1400                 | 4,96   | 34                   | 97                  | 9,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 3,34   | 34                   | 144                 | 14,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 2,45   | 34                   | 196                 | 19,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,67   | 34                   | 288                 | 29,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,67   | 34                   | 288                 | 29,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,23   | 35                   | 390                 | 39,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 0,98   | 35                   | 492                 | 49,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 38       | 38,1 | 0,37  | 0,5  | 71B-4      | 1400                 | 5,29   | 37                   | 91                  | 9,1                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 3,56   | 37                   | 135                 | 13,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 2,61   | 37                   | 184                 | 18,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,78   | 37                   | 269                 | 27,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,78   | 37                   | 269                 | 27,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,31   | 37                   | 365                 | 36,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,04   | 37                   | 460                 | 46,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 36       | 35,8 | 0,37  | 0,5  | 71B-4      | 1400                 | 5,61   | 39                   | 85                  | 8,6                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 3,77   | 39                   | 126                 | 12,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 2,77   | 39                   | 172                 | 17,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,89   | 39                   | 253                 | 25,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,89   | 39                   | 253                 | 25,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,39   | 39                   | 343                 | 34,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,10   | 40                   | 432                 | 43,6                 |    |    |    |    |         |     |     |     |     |
| 3      | 34       | 33,7 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,00   | 42                   | 119                 | 12,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 2,93   | 42                   | 162                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,00   | 42                   | 238                 | 24,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,00   | 42                   | 238                 | 24,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,48   | 42                   | 322                 | 32,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,17   | 42                   | 407                 | 41,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,01   | 42                   | 469                 | 47,3                 |    |    |    |    |         |     |     |     |     |
| 3      | 32       | 31,8 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,26   | 44                   | 112                 | 11,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,12   | 44                   | 153                 | 15,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,13   | 44                   | 225                 | 22,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,13   | 44                   | 225                 | 22,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,57   | 44                   | 304                 | 30,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,25   | 44                   | 384                 | 38,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      |       |      |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 3      | 30       | 30,4 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,40   | 46                   | 107                 | 10,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,22   | 46                   | 147                 | 14,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,20   | 46                   | 215                 | 21,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,20   | 46                   | 215                 | 21,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,62   | 46                   | 291                 | 29,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,29   | 46                   | 367                 | 37,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,11   | 47                   | 424                 | 42,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 27       | 26,7 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,97   | 52                   | 94                  | 9,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,64   | 52                   | 129                 | 13,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,48   | 52                   | 189                 | 19,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,48   | 52                   | 189                 | 19,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,83   | 53                   | 256                 | 25,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,45   | 53                   | 323                 | 32,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,26   | 53                   | 372                 | 37,6                 |    |    |    |    |         |     |     |     |     |
| 2      | 25       | 24,7 | 0,37  | 0,5  | 71B-4      | 1400                 | 5,26   | 57                   | 60                  | 6,0                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 3,54   | 57                   | 89                  | 9,0                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 2,59   | 57                   | 121                 | 12,2                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,77   | 57                   | 178                 | 18,0                 |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 30     |       | ratio i: |      | input |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 25    | 25,0     | 0,75 | 1     | 80B-4      | 1400                 | 3,88   | 56                   | 120                 | 12,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,65   | 56                   | 177                 | 17,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 2,65   | 56                   | 177                 | 17,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 1,95   | 56                   | 239                 | 24,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,55   | 57                   | 302                 | 30,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,34   | 57                   | 348                 | 35,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 0,98   | 57                   | 475                 | 47,9                 |    |    |    |    |         |     |     |     |     |
| 2      | 23    | 23,0     | 0,55 | 0,75  | 80A-4      | 1400                 | 3,78   | 61                   | 83                  | 8,4                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 2,77   | 61                   | 113                 | 11,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 1,89   | 61                   | 166                 | 16,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 1,89   | 61                   | 166                 | 16,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 1,40   | 61                   | 225                 | 22,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,11   | 61                   | 283                 | 28,6                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 0,98   | 61                   | 348                 | 35,1                 |    |    |    |    |         |     |     |     |     |
| 2      | 22    | 21,8     | 0,55 | 0,75  | 80A-4      | 1400                 | 4,50   | 64                   | 79                  | 7,9                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 3,30   | 64                   | 107                 | 10,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,25   | 64                   | 157                 | 15,9                 |    |    |    |    |         |     |     |     |     |
| 3      | 22    | 22,3     | 0,75 | 1     | 80B-4      | 1400                 | 4,37   | 63                   | 107                 | 10,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,98   | 63                   | 157                 | 15,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 2,98   | 63                   | 157                 | 15,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,20   | 63                   | 213                 | 21,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,74   | 63                   | 269                 | 27,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,51   | 64                   | 311                 | 31,3                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,11   | 64                   | 423                 | 42,7                 |    |    |    |    |         |     |     |     |     |
| 2      | 21    | 21,1     | 0,55 | 0,75  | 80A-4      | 1400                 | 4,81   | 66                   | 76                  | 7,7                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 3,53   | 66                   | 103                 | 10,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,41   | 66                   | 152                 | 15,3                 |    |    |    |    |         |     |     |     |     |
| 3      | 21    | 21,0     | 1,1  | 1,5   | 80C-4      | 1400                 | 3,16   | 67                   | 148                 | 14,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 3,16   | 67                   | 148                 | 14,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,33   | 67                   | 201                 | 20,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,85   | 67                   | 253                 | 25,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,60   | 68                   | 292                 | 29,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,17   | 68                   | 398                 | 40,2                 |    |    |    |    |         |     |     |     |     |
| 2      | 20    | 19,6     | 0,55 | 0,75  | 80A-4      | 1400                 | 5,15   | 71                   | 71                  | 7,1                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 3,77   | 71                   | 96                  | 9,7                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 2,57   | 71                   | 141                 | 14,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 2,57   | 71                   | 141                 | 14,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 1,90   | 72                   | 191                 | 19,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 1,51   | 72                   | 242                 | 24,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,17   | 72                   | 292                 | 29,5                 |    |    |    |    |         |     |     |     |     |
| 3      | 19    | 18,7     | 0,75 | 1     | 80B-4      | 1400                 | 5,11   | 75                   | 90                  | 9,1                  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 3,49   | 75                   | 132                 | 13,3                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 3,49   | 75                   | 132                 | 13,3                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,58   | 76                   | 178                 | 18,0                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,04   | 76                   | 225                 | 22,7                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,77   | 76                   | 260                 | 26,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,30   | 76                   | 354                 | 35,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 18    | 17,9     | 0,75 | 1     | 80B-4      | 1400                 | 5,33   | 78                   | 86                  | 8,7                  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 80C-4      | 1400                 | 3,63   | 78                   | 126                 | 12,7                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 3,63   | 78                   | 126                 | 12,7                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,68   | 79                   | 171                 | 17,3                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,12   | 79                   | 216                 | 21,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,84   | 79                   | 249                 | 25,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,35   | 79                   | 340                 | 34,3                 |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 30     | ratio i: |      | input |     |            |                      | output         |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|-----|------------|----------------------|----------------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp  | motor type | n <sub>1</sub> [rpm] | f <sub>s</sub> | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 2      | 16       | 15,7 | 0,75  | 1   | 80B-4      | 1400                 | 4,68           | 89                   | 77                  | 7,8                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,1   | 1,5 | 80C-4      | 1400                 | 3,19           | 89                   | 113                 | 11,4                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 3,19           | 89                   | 113                 | 11,4                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 2,36           | 90                   | 153                 | 15,4                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 1,87           | 90                   | 193                 | 19,5                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 1,62           | 91                   | 223                 | 22,5                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,19           | 91                   | 303                 | 30,6                 |    |    |    |    |         |     |     |     |     |
| 3      | 16       | 15,6 | 1,1   | 1,5 | 80C-4      | 1400                 | 4,19           | 90                   | 110                 | 11,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 4,19           | 90                   | 110                 | 11,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 3,09           | 91                   | 149                 | 15,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,45           | 91                   | 188                 | 19,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,12           | 91                   | 217                 | 21,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,56           | 91                   | 296                 | 29,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,17           | 91                   | 394                 | 39,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 15       | 14,7 | 5     | 6,8 | 112MB-4    | 1450                 | 0,95           | 93                   | 483                 | 48,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5 | 80C-4      | 1400                 | 4,37           | 95                   | 104                 | 10,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 4,37           | 95                   | 104                 | 10,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 3,23           | 96                   | 141                 | 14,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,56           | 96                   | 178                 | 17,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,21           | 97                   | 205                 | 20,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,62           | 97                   | 279                 | 28,2                 |    |    |    |    |         |     |     |     |     |
| 3      | 14       | 13,8 | 4     | 5,5 | 112M-4     | 1420                 | 1,22           | 97                   | 372                 | 37,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,00           | 99                   | 456                 | 46,0                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 0,75  | 1   | 80B-4      | 1400                 | 5,29           | 102                  | 68                  | 6,8                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,1   | 1,5 | 80C-4      | 1400                 | 3,61           | 102                  | 99                  | 10,0                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 3,61           | 102                  | 99                  | 10,0                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 2,67           | 102                  | 134                 | 13,5                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,11           | 103                  | 169                 | 17,1                 |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 12,9 | 2,2   | 3   | 100LA-4    | 1420                 | 1,83           | 103                  | 196                 | 19,7                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,34           | 103                  | 267                 | 26,9                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,01           | 103                  | 355                 | 35,9                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 0,75  | 1   | 80B-4      | 1400                 | 5,61           | 108                  | 64                  | 6,4                  |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 13,3 | 1,1   | 1,5 | 80C-4      | 1400                 | 3,83           | 108                  | 93                  | 9,4                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,1   | 1,5 | 90S-4      | 1400                 | 3,83           | 108                  | 93                  | 9,4                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 2,83           | 109                  | 126                 | 12,7                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,24           | 109                  | 159                 | 16,1                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 1,94           | 110                  | 184                 | 18,5                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,42           | 110                  | 251                 | 25,3                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,07           | 110                  | 334                 | 33,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 12       | 11,9 | 1,1   | 1,5 | 90S-4      | 1400                 | 4,79           | 105                  | 94                  | 9,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 3,54           | 106                  | 128                 | 12,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 2,80           | 106                  | 161                 | 16,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,43           | 106                  | 186                 | 18,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,78           | 106                  | 253                 | 25,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,34           | 106                  | 338                 | 34,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,09           | 109                  | 414                 | 41,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 12       | 11,9 | 1,1   | 1,5 | 90S-4      | 1400                 | 5,34           | 118                  | 84                  | 8,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                 | 3,95           | 119                  | 114                 | 11,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                 | 3,13           | 119                  | 143                 | 14,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,71           | 119                  | 166                 | 16,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                 | 1,99           | 119                  | 226                 | 22,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 12       | 11,9 | 4     | 5,5 | 112M-4     | 1420                 | 1,49           | 119                  | 301                 | 30,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,22           | 122                  | 368                 | 37,2                 |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

input connection **B5** IEC 72-1

| 30     |       | ratio i: |     | input |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|-----|-------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW  | Hp    | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 2      | 11    | 11,1     | 1,1 | 1,5   | 90S-4      | 1400                 | 5,11   | 126                  | 80                  | 8,0                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,5 | 2     | 90L-4      | 1410                 | 3,78   | 127                  | 108                 | 10,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9 | 2,6   | 90LB-4     | 1415                 | 2,99   | 128                  | 136                 | 13,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 2,59   | 128                  | 157                 | 15,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 1,90   | 128                  | 214                 | 21,6                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,43   | 128                  | 286                 | 28,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,16   | 131                  | 350                 | 35,3                 |    |    |    |    |         |     |     |     |     |
| 3      | 11    | 11,1     | 1,5 | 2     | 90L-4      | 1410                 | 4,26   | 127                  | 106                 | 10,7                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9 | 2,6   | 90LB-4     | 1415                 | 3,37   | 127                  | 134                 | 13,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 2,92   | 128                  | 155                 | 15,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,14   | 128                  | 211                 | 21,3                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,61   | 128                  | 282                 | 28,4                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,31   | 130                  | 345                 | 34,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 10    | 9,7      | 1,5 | 2     | 90L-4      | 1410                 | 4,57   | 145                  | 95                  | 9,6                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9 | 2,6   | 90LB-4     | 1415                 | 3,62   | 146                  | 120                 | 12,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,14   | 146                  | 138                 | 13,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,30   | 146                  | 188                 | 19,0                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,73   | 146                  | 251                 | 25,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,41   | 149                  | 308                 | 31,0                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 9     | 9,1      | 1,5 | 2     | 90L-4      | 1410                 | 5,22   | 154                  | 89                  | 9,0                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9 | 2,6   | 90LB-4     | 1415                 | 4,13   | 155                  | 113                 | 11,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,58   | 155                  | 130                 | 13,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,63   | 155                  | 177                 | 17,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,97   | 155                  | 236                 | 23,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,61   | 159                  | 289                 | 29,2                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 8     | 7,6      | 1,5 | 2     | 90L-4      | 1410                 | 5,22   | 185                  | 74                  | 7,5                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 1,9 | 2,6   | 90LB-4     | 1415                 | 4,13   | 186                  | 94                  | 9,5                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,58   | 186                  | 108                 | 10,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,63   | 186                  | 148                 | 14,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,97   | 186                  | 197                 | 19,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,61   | 190                  | 241                 | 24,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 7     | 6,8      | 2,2 | 3     | 100LA-4    | 1420                 | 4,91   | 209                  | 96                  | 9,7                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 3,60   | 209                  | 132                 | 13,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,70   | 209                  | 175                 | 17,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,20   | 214                  | 215                 | 21,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 6     | 5,9      | 2,2 | 3     | 100LA-4    | 1420                 | 4,11   | 242                  | 83                  | 8,4                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 3,01   | 242                  | 114                 | 11,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,26   | 242                  | 151                 | 15,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,85   | 247                  | 185                 | 18,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 5,5   | 5,7      | 2,2 | 3     | 100LA-4    | 1420                 | 4,91   | 251                  | 80                  | 8,1                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 3   | 4     | 100LB-4    | 1420                 | 3,60   | 251                  | 110                 | 11,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,70   | 251                  | 146                 | 14,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,20   | 256                  | 179                 | 18,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 5     | 4,9      | 3   | 4     | 100LB-4    | 1420                 | 5,19   | 293                  | 94                  | 9,5                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 3,89   | 293                  | 125                 | 12,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 3,18   | 299                  | 154                 | 15,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 4,5   | 4,6      | 3   | 4     | 100LB-4    | 1420                 | 4,44   | 311                  | 88                  | 8,9                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 3,33   | 311                  | 118                 | 11,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,72   | 318                  | 144                 | 14,6                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-2     | 2890                 | 6,10   | 633                  | 58                  | 5,8                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5,5 | 7,5   | 112MB-2    | 2880                 | 4,42   | 631                  | 80                  | 8,1                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      | 4     | 4,0      | 4   | 5,5   | 112M-4     | 1420                 | 4,33   | 356                  | 103                 | 10,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 3,54   | 363                  | 126                 | 12,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 4   | 5,5   | 112M-2     | 2890                 | 7,93   | 724                  | 51                  | 5,1                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 5,5 | 7,5   | 112MB-2    | 2880                 | 5,75   | 721                  | 70                  | 7,1                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 2      |       |          |     |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |

| 30     | ratio i: |      | input |     |            |                      | output |                      |                      |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|-----|------------|----------------------|--------|----------------------|----------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp  | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nnm] | M <sub>2</sub> [kgm] |    |    |    |    |         |     |     |     |     |
| 2      | 3,5      | 3,3  | 4     | 5,5 | 112M-4     | 1420                 | 4,33   | 426                  | 86                   | 8,7                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 3,54   | 435                  | 105                  | 10,6                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 7,93   | 868                  | 42                   | 4,3                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 5,75   | 865                  | 58                   | 5,9                  |    |    |    |    |         |     |     |     |     |
| 2      | 3        | 3,2  | 4     | 5,5 | 112M-4     | 1420                 | 5,57   | 440                  | 83                   | 8,4                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 4,55   | 449                  | 102                  | 10,3                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100L-2     | 2880                 | 13,57  | 893                  | 31                   | 3,1                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 10,21  | 896                  | 41                   | 4,1                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 7,40   | 893                  | 57                   | 5,7                  |    |    |    |    |         |     |     |     |     |
| 2      | 2,5      | 2,7  | 4     | 5,5 | 112M-4     | 1420                 | 5,57   | 528                  | 70                   | 7,0                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 4,55   | 539                  | 85                   | 8,6                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-2     | 2890                 | 10,21  | 1074                 | 34                   | 3,4                  |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5 | 112MB-2    | 2880                 | 7,40   | 1070                 | 47                   | 4,8                  |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 35     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 123   | 123,2    | 0,18 | 0,25  | 80A-8      | 690                  | 2,24 | 5,6                  | 289                 | 29,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,61 | 5,6                  | 401                 | 40,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 2,70 | 7,4                  | 219                 | 22,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 1,95 | 7,4                  | 304                 | 30,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,34 | 7,6                  | 440                 | 44,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 0,89 | 7,5                  | 662                 | 66,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,72 | 11                   | 198                 | 20,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,84 | 11                   | 293                 | 29,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,24 | 11                   | 435                 | 43,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 0,91 | 11                   | 593                 | 59,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 113   | 112,7    | 0,18 | 0,25  | 80A-8      | 690                  | 2,40 | 6,1                  | 264                 | 26,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,73 | 6,1                  | 367                 | 37,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 2,90 | 8,1                  | 200                 | 20,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 2,09 | 8,1                  | 278                 | 28,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,44 | 8,3                  | 403                 | 40,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 0,96 | 8,2                  | 605                 | 61,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 2,92 | 12                   | 181                 | 18,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 1,97 | 12                   | 268                 | 27,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,33 | 12                   | 398                 | 40,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 0,97 | 12                   | 542                 | 54,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 106   | 105,6    | 0,18 | 0,25  | 80A-8      | 690                  | 2,52 | 6,5                  | 248                 | 25,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 1,82 | 6,5                  | 344                 | 34,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 3,05 | 8,6                  | 188                 | 18,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 2,20 | 8,6                  | 261                 | 26,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,52 | 8,8                  | 377                 | 38,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 1,01 | 8,7                  | 568                 | 57,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 3,07 | 13                   | 169                 | 17,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 2,08 | 13                   | 251                 | 25,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,40 | 13                   | 373                 | 37,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,02 | 13                   | 508                 | 51,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 100   | 99,6     | 0,18 | 0,25  | 80A-8      | 690                  | 2,91 | 6,9                  | 233                 | 23,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 2,09 | 6,9                  | 324                 | 32,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 3,51 | 9,1                  | 177                 | 17,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 2,53 | 9,1                  | 246                 | 24,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,75 | 9,3                  | 356                 | 35,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 1,16 | 9,2                  | 535                 | 54,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 3,54 | 14                   | 160                 | 16,1                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 2,39 | 14                   | 237                 | 23,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,61 | 14                   | 352                 | 35,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,18 | 14                   | 479                 | 48,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 99    | 98,8     | 0,18 | 0,25  | 80A-8      | 690                  | 3,29 | 7,0                  | 232                 | 23,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 2,37 | 7,0                  | 322                 | 32,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 3,97 | 9,2                  | 176                 | 17,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 2,86 | 9,2                  | 244                 | 24,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,98 | 9,4                  | 353                 | 35,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 1,31 | 9,3                  | 531                 | 53,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 4,00 | 14                   | 159                 | 16,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 2,70 | 14                   | 235                 | 23,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,82 | 14                   | 349                 | 35,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,33 | 14                   | 476                 | 48,0                 |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 35     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 90    | 90,4     | 0,18 | 0,25  | 80A-8      | 690                  | 3,53 | 7,6                  | 212                 | 21,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 2,54 | 7,6                  | 294                 | 29,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 4,26 | 10,1                 | 161                 | 16,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 3,07 | 10,1                 | 223                 | 22,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 2,12 | 10,3                 | 323                 | 32,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 1,41 | 10,2                 | 486                 | 49,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 4,29 | 15                   | 145                 | 14,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 2,90 | 15                   | 215                 | 21,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,95 | 15                   | 319                 | 32,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,43 | 15                   | 435                 | 43,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 88    | 87,7     | 0,18 | 0,25  | 80A-8      | 690                  | 2,92 | 7,9                  | 206                 | 20,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 2,11 | 7,9                  | 286                 | 28,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 3,54 | 10,4                 | 156                 | 15,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 2,55 | 10,4                 | 216                 | 21,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,76 | 10,6                 | 314                 | 31,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 1,17 | 10,5                 | 471                 | 47,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 3,56 | 16                   | 141                 | 14,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 2,41 | 16                   | 208                 | 21,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,62 | 16                   | 310                 | 31,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,19 | 16                   | 422                 | 42,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 86    | 85,8     | 0,18 | 0,25  | 80A-8      | 690                  | 2,99 | 8,0                  | 201                 | 20,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 2,15 | 8,0                  | 279                 | 28,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,18 | 0,25  | 71A-6      | 910                  | 3,61 | 10,6                 | 152                 | 15,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71B-6      | 910                  | 2,60 | 10,6                 | 212                 | 21,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,50  | 80A-6      | 930                  | 1,79 | 10,8                 | 307                 | 31,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80B-6      | 920                  | 1,19 | 10,7                 | 461                 | 46,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 71A-4      | 1400                 | 3,63 | 16                   | 138                 | 13,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,37 | 0,5   | 71B-4      | 1400                 | 2,46 | 16                   | 204                 | 20,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,55 | 0,75  | 80A-4      | 1400                 | 1,65 | 16                   | 303                 | 30,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 80B-4      | 1400                 | 1,21 | 16                   | 413                 | 41,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 85    | 84,7     | 0,18 | 0,25  | 80A-8      | 690                  | 3,71 | 8,2                  | 199                 | 20,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,25 | 0,35  | 80B-8      | 690                  | 2,67 | 8,2                  | 276                 | 27,8                 |  |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 35     | ratio i: |      | input |      |            |                      | output |                      |                     |                      |    |    |    |    |         |     |     |     |     |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
| 3      | 77       | 77,5 | 0,18  | 0,25 | 80A-8      | 690                  | 3,98   | 8,9                  | 182                 | 18,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 2,87   | 8,9                  | 252                 | 25,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 4,85   | 18                   | 124                 | 12,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 3,27   | 18                   | 184                 | 18,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,20   | 18                   | 273                 | 27,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,62   | 18                   | 373                 | 37,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,10   | 18                   | 547                 | 55,2                 |    |    |    |    |         |     |     |     |     |
| 3      | 75       | 75,2 | 0,18  | 0,25 | 80A-8      | 690                  | 3,72   | 9,2                  | 176                 | 17,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 2,68   | 9,2                  | 245                 | 24,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 1,76   | 8,9                  | 373                 | 37,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,23   | 9,3                  | 531                 | 53,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 4,52   | 19                   | 121                 | 12,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 3,06   | 19                   | 179                 | 18,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,06   | 19                   | 266                 | 26,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 73       | 73,4 | 0,75  | 1    | 80B-4      | 1400                 | 1,51   | 19                   | 362                 | 36,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,03   | 19                   | 531                 | 53,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,03   | 19                   | 531                 | 53,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                  | 4,79   | 9,4                  | 172                 | 17,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,45   | 9,4                  | 239                 | 24,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,26   | 9,1                  | 364                 | 36,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,59   | 9,5                  | 518                 | 52,3                 |    |    |    |    |         |     |     |     |     |
| 3      | 70       | 70,3 | 0,25  | 0,35 | 71A-4      | 1400                 | 5,83   | 19                   | 118                 | 11,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 3,94   | 19                   | 174                 | 17,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,65   | 19                   | 259                 | 26,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,94   | 19                   | 353                 | 35,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,33   | 19                   | 518                 | 52,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,33   | 19                   | 518                 | 52,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 0,98   | 19                   | 701                 | 70,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 70       | 70,3 | 0,18  | 0,25 | 80A-8      | 690                  | 4,31   | 9,8                  | 165                 | 16,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,10   | 9,8                  | 229                 | 23,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,03   | 9,5                  | 349                 | 35,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,43   | 10,0                 | 497                 | 50,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 5,24   | 20                   | 113                 | 11,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 3,54   | 20                   | 167                 | 16,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,38   | 20                   | 248                 | 25,1                 |    |    |    |    |         |     |     |     |     |
| 3      | 69       | 68,8 | 0,75  | 1    | 80B-4      | 1400                 | 1,75   | 20                   | 339                 | 34,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,19   | 20                   | 497                 | 50,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,19   | 20                   | 497                 | 50,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 0,88   | 20                   | 673                 | 67,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                  | 4,40   | 10,0                 | 161                 | 16,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,17   | 10,0                 | 224                 | 22,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,08   | 9,7                  | 341                 | 34,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 69       | 68,8 | 0,55  | 0,75 | 90L-8      | 700                  | 1,46   | 10,2                 | 486                 | 49,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 71A-4      | 1400                 | 5,35   | 20                   | 110                 | 11,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 71B-4      | 1400                 | 3,62   | 20                   | 164                 | 16,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,43   | 20                   | 243                 | 24,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,78   | 20                   | 331                 | 33,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,22   | 20                   | 486                 | 49,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,22   | 20                   | 486                 | 49,0                 |    |    |    |    |         |     |     |     |     |
| 3      | 63       | 62,9 | 1,5   | 2    | 90L-4      | 1410                 | 0,90   | 20                   | 658                 | 66,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,18  | 0,25 | 80A-8      | 690                  | 4,79   | 9,4                  | 172                 | 17,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,45   | 9,4                  | 239                 | 24,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,26   | 9,1                  | 364                 | 36,8                 |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| <b>35</b> |       | ratio i: |             | input |            |                      |             | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|-----------|-------|----------|-------------|-------|------------|----------------------|-------------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages    | rated | real     | kW          | Hp    | motor type | n <sub>1</sub> [rpm] | fs          | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3         | 49    | 49,0     | <b>0,37</b> | 0,5   | 71B-4      | 1400                 | <b>5,22</b> | 29                   | 116                 | 11,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>3,51</b> | 29                   | 173                 | 17,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>2,58</b> | 29                   | 236                 | 23,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,76</b> | 29                   | 346                 | 34,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>1,76</b> | 29                   | 346                 | 34,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,30</b> | 29                   | 468                 | 47,3                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,03</b> | 29                   | 591                 | 59,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 47    | 46,6     | <b>0,37</b> | 0,5   | 71B-4      | 1400                 | <b>5,22</b> | 30                   | 111                 | 11,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>3,51</b> | 30                   | 164                 | 16,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>2,57</b> | 30                   | 224                 | 22,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,75</b> | 30                   | 329                 | 33,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>1,75</b> | 30                   | 329                 | 33,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,30</b> | 30                   | 445                 | 44,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,03</b> | 30                   | 562                 | 56,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 46    | 46,1     | <b>0,37</b> | 0,5   | 71B-4      | 1400                 | <b>5,26</b> | 30                   | 110                 | 11,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>3,54</b> | 30                   | 163                 | 16,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>2,60</b> | 30                   | 222                 | 22,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,77</b> | 30                   | 326                 | 32,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>1,77</b> | 30                   | 326                 | 32,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,31</b> | 31                   | 441                 | 44,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,04</b> | 31                   | 557                 | 56,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 45    | 44,8     | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>4,33</b> | 31                   | 158                 | 16,0                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>3,18</b> | 31                   | 216                 | 21,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>2,17</b> | 31                   | 316                 | 31,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>2,17</b> | 31                   | 316                 | 31,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,60</b> | 31                   | 428                 | 43,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,27</b> | 32                   | 540                 | 54,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>2,2</b>  | 3     | 100LA-4    | 1420                 | <b>1,10</b> | 32                   | 623                 | 62,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 42    | 42,4     | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>4,56</b> | 33                   | 150                 | 15,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>3,34</b> | 33                   | 204                 | 20,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>2,28</b> | 33                   | 299                 | 30,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>2,28</b> | 33                   | 299                 | 30,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,68</b> | 33                   | 405                 | 40,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,33</b> | 33                   | 512                 | 51,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>2,2</b>  | 3     | 100LA-4    | 1420                 | <b>1,16</b> | 34                   | 590                 | 59,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 41    | 41,3     | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>4,67</b> | 34                   | 146                 | 14,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>3,43</b> | 34                   | 199                 | 20,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>2,34</b> | 34                   | 292                 | 29,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>2,34</b> | 34                   | 292                 | 29,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,73</b> | 34                   | 395                 | 39,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,37</b> | 34                   | 498                 | 50,3                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>2,2</b>  | 3     | 100LA-4    | 1420                 | <b>1,18</b> | 34                   | 575                 | 58,0                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 40    | 40,4     | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>4,66</b> | 35                   | 143                 | 14,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>3,42</b> | 35                   | 194                 | 19,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>2,33</b> | 35                   | 285                 | 28,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>2,33</b> | 35                   | 285                 | 28,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,5</b>  | 2     | 90L-4      | 1410                 | <b>1,72</b> | 35                   | 386                 | 38,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,9</b>  | 2,6   | 90LB-4     | 1415                 | <b>1,36</b> | 35                   | 487                 | 49,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>2,2</b>  | 3     | 100LA-4    | 1420                 | <b>1,18</b> | 35                   | 562                 | 56,7                 |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 35     | ratio i: |      | input |      |            |                      | output |                      |                     |                       | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|-----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kg·m] |    |    |    |    |         |     |     |     |     |
| 3      | 38       | 37,8 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,69   | 37                   | 134                 | 13,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,44   | 37                   | 182                 | 18,4                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,35   | 37                   | 267                 | 27,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,35   | 37                   | 267                 | 27,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,73   | 37                   | 362                 | 36,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,37   | 37                   | 457                 | 46,1                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,19   | 38                   | 527                 | 53,2                  |    |    |    |    |         |     |     |     |     |
| 3      | 36       | 36,4 | 0,55  | 0,75 | 80A-4      | 1400                 | 5,27   | 38                   | 128                 | 13,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,86   | 38                   | 175                 | 17,7                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,63   | 38                   | 257                 | 25,9                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,63   | 38                   | 257                 | 25,9                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,94   | 39                   | 348                 | 35,1                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,54   | 39                   | 439                 | 44,3                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,34   | 39                   | 507                 | 51,1                  |    |    |    |    |         |     |     |     |     |
| 3      | 35       | 34,6 | 3     | 4    | 100LB-4    | 1420                 | 0,98   | 39                   | 691                 | 69,7                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 4,05   | 40                   | 167                 | 16,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,76   | 40                   | 244                 | 24,6                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,76   | 40                   | 244                 | 24,6                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,04   | 41                   | 331                 | 33,4                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,62   | 41                   | 417                 | 42,1                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,40   | 41                   | 482                 | 48,6                  |    |    |    |    |         |     |     |     |     |
| 3      | 34       | 34,3 | 3     | 4    | 100LB-4    | 1420                 | 1,03   | 41                   | 657                 | 66,3                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 4,09   | 41                   | 165                 | 16,6                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,79   | 41                   | 242                 | 24,4                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,79   | 41                   | 242                 | 24,4                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,06   | 41                   | 327                 | 33,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,63   | 41                   | 413                 | 41,7                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,41   | 41                   | 477                 | 48,1                  |    |    |    |    |         |     |     |     |     |
| 3      | 30       | 29,9 | 3     | 4    | 100LB-4    | 1420                 | 1,04   | 41                   | 650                 | 65,6                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 4,65   | 47                   | 144                 | 14,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,17   | 47                   | 211                 | 21,3                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,17   | 47                   | 211                 | 21,3                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,34   | 47                   | 286                 | 28,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,86   | 47                   | 360                 | 36,4                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,61   | 48                   | 416                 | 41,9                  |    |    |    |    |         |     |     |     |     |
| 3      | 28       | 28,1 | 3     | 4    | 100LB-4    | 1420                 | 1,18   | 48                   | 567                 | 57,2                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 0,88   | 48                   | 756                 | 76,3                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 4,93   | 50                   | 135                 | 13,7                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,36   | 50                   | 198                 | 20,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,36   | 50                   | 198                 | 20,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,48   | 50                   | 269                 | 27,1                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,97   | 50                   | 339                 | 34,2                  |    |    |    |    |         |     |     |     |     |
| 3      | 26       | 26,4 | 2,2   | 3    | 100LA-4    | 1420                 | 1,70   | 51                   | 391                 | 39,5                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,25   | 51                   | 534                 | 53,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 0,94   | 51                   | 712                 | 71,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 5,12   | 53                   | 127                 | 12,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,49   | 53                   | 186                 | 18,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,49   | 53                   | 186                 | 18,8                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,58   | 54                   | 252                 | 25,4                  |    |    |    |    |         |     |     |     |     |
| 3      | 26       | 26,4 | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,04   | 54                   | 318                 | 32,1                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,77   | 54                   | 367                 | 37,0                  |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,30   | 54                   | 500                 | 50,5                  |    |    |    |    |         |     |     |     |     |



input connection **B5** IEC 72-1

| 35     | ratio i: |      | input |     |            |                         | output         |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|-----|------------|-------------------------|----------------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp  | motor type | n <sub>i</sub><br>[rpm] | f <sub>s</sub> | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 14       | 14,1 | 1,5   | 2   | 90L-4      | 1410                    | 4,76           | 100                     | 135                    | 13,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,77           | 100                     | 170                    | 17,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,27           | 101                     | 197                    | 19,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,40           | 101                     | 268                    | 27,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,80           | 101                     | 357                    | 36,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,47           | 103                     | 438                    | 44,1                    |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 12,7 | 1,5   | 2   | 90L-4      | 1410                    | 4,33           | 111                     | 124                    | 12,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,43           | 111                     | 156                    | 15,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,98           | 112                     | 181                    | 18,2                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,18           | 112                     | 246                    | 24,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,64           | 112                     | 328                    | 33,1                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,34           | 114                     | 402                    | 40,5                    |    |    |    |    |         |     |     |     |     |
| 3      | 13       | 13,3 | 1,5   | 2   | 90L-4      | 1410                    | 4,92           | 106                     | 128                    | 12,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,90           | 106                     | 161                    | 16,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,38           | 106                     | 186                    | 18,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,48           | 106                     | 253                    | 25,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,86           | 106                     | 338                    | 34,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,52           | 109                     | 413                    | 41,7                    |    |    |    |    |         |     |     |     |     |
| 2      | 12       | 11,6 | 1,5   | 2   | 90L-4      | 1410                    | 4,60           | 121                     | 114                    | 11,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,64           | 122                     | 143                    | 14,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,16           | 122                     | 165                    | 16,7                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,32           | 122                     | 226                    | 22,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,74           | 122                     | 301                    | 30,4                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,42           | 125                     | 368                    | 37,2                    |    |    |    |    |         |     |     |     |     |
| 2      | 11       | 11,2 | 1,9   | 2,6 | 90LB-4     | 1415                    | 4,17           | 126                     | 138                    | 13,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,61           | 127                     | 159                    | 16,0                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,65           | 127                     | 217                    | 21,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,99           | 127                     | 289                    | 29,2                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,62           | 130                     | 354                    | 35,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 4,25           | 133                     | 149                    | 15,0                    |    |    |    |    |         |     |     |     |     |
| 3      | 11       | 10,7 | 3     | 4   | 100LB-4    | 1420                    | 3,12           | 133                     | 203                    | 20,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 2,34           | 133                     | 270                    | 27,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,91           | 136                     | 331                    | 33,4                    |    |    |    |    |         |     |     |     |     |
| 2      | 10       | 10,1 | 1,9   | 2,6 | 90LB-4     | 1415                    | 4,19           | 141                     | 124                    | 12,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,63           | 141                     | 143                    | 14,4                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,67           | 141                     | 195                    | 19,7                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 2,00           | 141                     | 260                    | 26,2                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,63           | 144                     | 318                    | 32,1                    |    |    |    |    |         |     |     |     |     |
| 2      | 9        | 8,6  | 2,2   | 3   | 100LA-4    | 1420                    | 4,35           | 164                     | 123                    | 12,4                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 3,19           | 164                     | 168                    | 16,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 2,39           | 164                     | 223                    | 22,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,95           | 168                     | 273                    | 27,6                    |    |    |    |    |         |     |     |     |     |
| 2      | 8        | 7,6  | 2,2   | 3   | 100LA-4    | 1420                    | 4,32           | 187                     | 108                    | 10,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 3,17           | 187                     | 147                    | 14,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 2,37           | 187                     | 196                    | 19,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,94           | 191                     | 241                    | 24,3                    |    |    |    |    |         |     |     |     |     |
| 3      | 8        | 7,7  | 3     | 4   | 100LB-4    | 1420                    | 4,27           | 184                     | 146                    | 14,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 3,20           | 184                     | 195                    | 19,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 2,61           | 188                     | 239                    | 24,1                    |    |    |    |    |         |     |     |     |     |
| 2      | 7        | 7,5  | 2,2   | 3   | 100LA-4    | 1420                    | 5,34           | 190                     | 106                    | 10,7                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4   | 100LB-4    | 1420                    | 3,92           | 190                     | 145                    | 14,6                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 2,94           | 190                     | 193                    | 19,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 2,40           | 194                     | 236                    | 23,8                    |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| <b>35</b> |       | ratio i: |            | input |            |                      |              | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|-----------|-------|----------|------------|-------|------------|----------------------|--------------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages    | rated | real     | kW         | Hp    | motor type | n <sub>1</sub> [rpm] | fs           | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3         | 6,5   | 6,7      | <b>3</b>   | 4     | 100LB-4    | 1420                 | <b>4,89</b>  | 213                  | 127                 | 12,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>3,67</b>  | 213                  | 169                 | 17,0                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>3,00</b>  | 217                  | 207                 | 20,9                 |  |    |    |    |    |         |     |     |     |     |
| 2         | 5,5   | 5,6      | <b>3</b>   | 4     | 100LB-4    | 1420                 | <b>5,17</b>  | 251                  | 109                 | 11,0                 |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>3,87</b>  | 251                  | 146                 | 14,7                 |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>3,16</b>  | 257                  | 179                 | 18,0                 |  |    |    |    |    |         |     |     |     |     |
| 2         | 5     | 4,8      | <b>3</b>   | 4     | 100LB-4    | 1420                 | <b>4,97</b>  | 299                  | 92                  | 9,3                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>3,73</b>  | 299                  | 123                 | 12,4                 |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>3,04</b>  | 305                  | 150                 | 15,2                 |  |    |    |    |    |         |     |     |     |     |
| 2         | 4     | 3,9      | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>4,57</b>  | 369                  | 99                  | 10,0                 |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>3,73</b>  | 377                  | 122                 | 12,3                 |  |    |    |    |    |         |     |     |     |     |
| 2         | 3,5   | 3,5      | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>5,73</b>  | 402                  | 91                  | 9,2                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>4,68</b>  | 411                  | 112                 | 11,3                 |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>4</b>   | 5,5   | 112M-2     | 2890                 | <b>10,50</b> | 819                  | 45                  | 4,5                  |  |    |    |    |    |         |     |     |     |     |
| 2         | 3     | 2,9      | <b>5,5</b> | 7,5   | 112MB-2    | 2880                 | <b>7,61</b>  | 816                  | 62                  | 6,2                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>6,29</b>  | 497                  | 74                  | 7,5                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>5,14</b>  | 507                  | 90                  | 9,1                  |  |    |    |    |    |         |     |     |     |     |
| 2         | 2,5   | 2,5      | <b>4</b>   | 5,5   | 112M-2     | 2890                 | <b>11,53</b> | 1011                 | 36                  | 3,7                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5,5</b> | 7,5   | 112MB-2    | 2880                 | <b>8,35</b>  | 1007                 | 50                  | 5,1                  |  |    |    |    |    |         |     |     |     |     |
| 2         | 2     | 2,0      | <b>4</b>   | 5,5   | 112M-4     | 1420                 | <b>5,73</b>  | 574                  | 64                  | 6,5                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5</b>   | 6,8   | 112MB-4    | 1450                 | <b>4,68</b>  | 586                  | 78                  | 7,9                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>4</b>   | 5,5   | 112M-2     | 2890                 | <b>11,53</b> | 1442                 | 25                  | 2,6                  |  |    |    |    |    |         |     |     |     |     |
| 2         |       |          | <b>5,5</b> | 7,5   | 112MB-2    | 2880                 | <b>8,35</b>  | 1437                 | 35                  | 3,5                  |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| <b>40</b> |       | ratio i: |             | input |            |                      |             | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|-----------|-------|----------|-------------|-------|------------|----------------------|-------------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages    | rated | real     | kW          | Hp    | motor type | n <sub>1</sub> [rpm] | fs          | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3         | 121   | 120,9    | <b>0,18</b> | 0,25  | 80A-8      | 690                  | <b>3,30</b> | 5,7                  | 283                 | 28,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,25</b> | 0,35  | 80B-8      | 690                  | <b>2,38</b> | 5,7                  | 394                 | 39,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,50  | 80A-6      | 930                  | <b>1,98</b> | 8                    | 432                 | 43,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80B-6      | 920                  | <b>1,32</b> | 8                    | 650                 | 65,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>1,83</b> | 12                   | 427                 | 43,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>1,34</b> | 12                   | 582                 | 58,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 116   | 116,1    | <b>0,18</b> | 0,25  | 80A-8      | 690                  | <b>3,41</b> | 5,9                  | 272                 | 27,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,25</b> | 0,35  | 80B-8      | 690                  | <b>2,45</b> | 5,9                  | 378                 | 38,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,50  | 80A-6      | 930                  | <b>2,05</b> | 8                    | 415                 | 41,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80B-6      | 920                  | <b>1,36</b> | 8                    | 624                 | 63,0                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>1,88</b> | 12                   | 410                 | 41,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>1,38</b> | 12                   | 559                 | 56,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 110   | 110,3    | <b>0,18</b> | 0,25  | 80A-8      | 690                  | <b>3,78</b> | 6,3                  | 259                 | 26,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,25</b> | 0,35  | 80B-8      | 690                  | <b>2,72</b> | 6,3                  | 360                 | 36,3                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,5   | 90S-8      | 670                  | <b>1,79</b> | 6,1                  | 548                 | 55,3                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 90L-8      | 700                  | <b>1,25</b> | 6,3                  | 780                 | 78,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,50  | 80A-6      | 930                  | <b>2,27</b> | 8                    | 395                 | 39,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80B-6      | 920                  | <b>1,51</b> | 8                    | 593                 | 59,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 90S-6      | 915                  | <b>1,10</b> | 8,3                  | 813                 | 82,0                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>2,09</b> | 13                   | 390                 | 39,3                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>1,53</b> | 13                   | 531                 | 53,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,05</b> | 13                   | 779                 | 78,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 106   | 106,0    | <b>0,18</b> | 0,25  | 80A-8      | 690                  | <b>3,90</b> | 6,5                  | 249                 | 25,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,25</b> | 0,35  | 80B-8      | 690                  | <b>2,81</b> | 6,5                  | 345                 | 34,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,5   | 90S-8      | 670                  | <b>1,84</b> | 6,3                  | 526                 | 53,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 90L-8      | 700                  | <b>1,30</b> | 6,6                  | 749                 | 75,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,50  | 80A-6      | 930                  | <b>2,34</b> | 9                    | 379                 | 38,3                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80B-6      | 920                  | <b>1,56</b> | 9                    | 570                 | 57,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 90S-6      | 915                  | <b>1,14</b> | 8,6                  | 781                 | 78,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>2,16</b> | 13                   | 374                 | 37,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>1,58</b> | 13                   | 510                 | 51,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,08</b> | 13                   | 748                 | 75,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 105   | 105,4    | <b>0,18</b> | 0,25  | 80A-8      | 690                  | <b>3,67</b> | 6,6                  | 247                 | 24,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,25</b> | 0,35  | 80B-8      | 690                  | <b>2,64</b> | 6,6                  | 343                 | 34,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,5   | 90S-8      | 670                  | <b>1,73</b> | 6,4                  | 523                 | 52,8                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 90L-8      | 700                  | <b>1,22</b> | 6,6                  | 745                 | 75,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,50  | 80A-6      | 930                  | <b>2,21</b> | 9                    | 377                 | 38,0                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80B-6      | 920                  | <b>1,47</b> | 9                    | 566                 | 57,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 90S-6      | 915                  | <b>1,07</b> | 8,7                  | 777                 | 78,4                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>2,03</b> | 13                   | 372                 | 37,6                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>1,49</b> | 13                   | 508                 | 51,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,02</b> | 13                   | 745                 | 75,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         | 101   | 101,2    | <b>0,18</b> | 0,25  | 80A-8      | 690                  | <b>3,79</b> | 6,8                  | 237                 | 23,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,25</b> | 0,35  | 80B-8      | 690                  | <b>2,73</b> | 6,8                  | 329                 | 33,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,5   | 90S-8      | 670                  | <b>1,79</b> | 6,6                  | 502                 | 50,7                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 90L-8      | 700                  | <b>1,26</b> | 6,9                  | 715                 | 72,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,37</b> | 0,50  | 80A-6      | 930                  | <b>2,28</b> | 9                    | 362                 | 36,5                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80B-6      | 920                  | <b>1,52</b> | 9                    | 544                 | 54,9                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 90S-6      | 915                  | <b>1,11</b> | 9,0                  | 746                 | 75,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,55</b> | 0,75  | 80A-4      | 1400                 | <b>2,10</b> | 14                   | 357                 | 36,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>0,75</b> | 1     | 80B-4      | 1400                 | <b>1,54</b> | 14                   | 487                 | 49,2                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 80C-4      | 1400                 | <b>1,05</b> | 14                   | 715                 | 72,1                 |  |    |    |    |    |         |     |     |     |     |
| 3         |       |          | <b>1,1</b>  | 1,5   | 90S-4      | 1400                 | <b>1,05</b> | 14                   | 715                 | 72,1                 |  |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                         | output         |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|----------------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | f <sub>s</sub> | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 98       | 97,6 | 0,18  | 0,25 | 80A-8      | 690                     | 4,16           | 7,1                     | 229                    | 23,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 3,00           | 7,1                     | 318                    | 32,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 1,97           | 6,9                     | 485                    | 48,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 1,38           | 7,2                     | 689                    | 69,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                     | 2,50           | 10                      | 349                    | 35,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                     | 1,66           | 9                       | 525                    | 52,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                     | 1,21           | 9,4                     | 719                    | 72,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,30           | 14                      | 345                    | 34,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,69           | 14                      | 470                    | 47,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,15           | 14                      | 689                    | 69,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,15           | 14                      | 689                    | 69,6                    |    |    |    |    |         |     |     |     |     |
| 3      | 96       | 96,2 | 0,18  | 0,25 | 80A-8      | 690                     | 4,21           | 7,2                     | 226                    | 22,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 3,03           | 7,2                     | 313                    | 31,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 1,99           | 7,0                     | 477                    | 48,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 1,40           | 7,3                     | 679                    | 68,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                     | 2,53           | 10                      | 344                    | 34,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                     | 1,68           | 10                      | 517                    | 52,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                     | 1,23           | 9,5                     | 709                    | 71,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,33           | 15                      | 340                    | 34,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,71           | 15                      | 463                    | 46,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,16           | 15                      | 680                    | 68,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,16           | 15                      | 680                    | 68,6                    |    |    |    |    |         |     |     |     |     |
| 3      | 93       | 93,2 | 0,18  | 0,25 | 80A-8      | 690                     | 4,04           | 7,4                     | 219                    | 22,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 2,91           | 7,4                     | 304                    | 30,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 1,91           | 7,2                     | 463                    | 46,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 1,34           | 7,5                     | 658                    | 66,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                     | 2,43           | 10                      | 334                    | 33,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                     | 1,62           | 10                      | 501                    | 50,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                     | 1,18           | 9,8                     | 687                    | 69,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,24           | 15                      | 329                    | 33,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,64           | 15                      | 449                    | 45,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,12           | 15                      | 658                    | 66,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,12           | 15                      | 658                    | 66,4                    |    |    |    |    |         |     |     |     |     |
| 3      | 92       | 92,4 | 0,18  | 0,25 | 80A-8      | 690                     | 4,34           | 7,5                     | 217                    | 21,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 3,13           | 7,5                     | 301                    | 30,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 2,05           | 7,3                     | 459                    | 46,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 1,44           | 7,6                     | 652                    | 65,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                     | 2,61           | 10                      | 331                    | 33,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                     | 1,74           | 10                      | 496                    | 50,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                     | 1,27           | 9,9                     | 681                    | 68,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,40           | 15                      | 326                    | 32,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,76           | 15                      | 445                    | 44,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,20           | 15                      | 653                    | 65,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,20           | 15                      | 653                    | 65,8                    |    |    |    |    |         |     |     |     |     |
| 3      | 91       | 90,7 | 0,18  | 0,25 | 80A-8      | 690                     | 4,41           | 7,6                     | 213                    | 21,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                     | 3,17           | 7,6                     | 295                    | 29,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 2,08           | 7,4                     | 451                    | 45,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 1,46           | 7,7                     | 640                    | 64,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                     | 2,65           | 10                      | 324                    | 32,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                     | 1,76           | 10                      | 488                    | 49,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                     | 1,29           | 10,1                    | 668                    | 67,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 2,44           | 15                      | 320                    | 32,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 1,79           | 15                      | 437                    | 44,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,22           | 15                      | 641                    | 64,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,22           | 15                      | 641                    | 64,6                    |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                      | output         |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|----------------------|----------------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | f <sub>s</sub> | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 90       | 89,8 | 0,18  | 0,25 | 80A-8      | 690                  | 4,18           | 7,7                  | 211                 | 21,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,01           | 7,7                  | 293                 | 29,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 1,98           | 7,5                  | 446                 | 45,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,39           | 7,8                  | 635                 | 64,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                  | 2,51           | 10                   | 321                 | 32,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                  | 1,67           | 10                   | 483                 | 48,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                  | 1,22           | 10,2                 | 662                 | 66,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,31           | 16                   | 317                 | 32,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,70           | 16                   | 433                 | 43,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,16           | 16                   | 635                 | 64,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,16           | 16                   | 635                 | 64,0                 |    |    |    |    |         |     |     |     |     |
| 3      | 87       | 86,7 | 0,18  | 0,25 | 80A-8      | 690                  | 4,33           | 8,0                  | 203                 | 20,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,11           | 8,0                  | 282                 | 28,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,04           | 7,7                  | 430                 | 43,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,44           | 8,1                  | 612                 | 61,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                  | 2,60           | 11                   | 310                 | 31,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                  | 1,73           | 11                   | 466                 | 47,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                  | 1,26           | 10,6                 | 638                 | 64,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,39           | 16                   | 306                 | 30,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,76           | 16                   | 417                 | 42,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,20           | 16                   | 612                 | 61,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,20           | 16                   | 612                 | 61,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 1,5      | 2    | 90L-4 | 1410 | 0,88       | 16                   | 829            | 83,6                 |                     |                      |    |    |    |    |         |     |     |     |     |
| 3      | 85       | 85,1 | 0,18  | 0,25 | 80A-8      | 690                  | 4,64           | 8,1                  | 199                 | 20,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,34           | 8,1                  | 277                 | 28,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,19           | 7,9                  | 423                 | 42,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,54           | 8,2                  | 601                 | 60,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                  | 2,79           | 11                   | 304                 | 30,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                  | 1,85           | 11                   | 457                 | 46,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                  | 1,35           | 10,8                 | 627                 | 63,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,57           | 16                   | 301                 | 30,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,88           | 16                   | 410                 | 41,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,28           | 16                   | 601                 | 60,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,28           | 16                   | 601                 | 60,6                 |    |    |    |    |         |     |     |     |     |
| 3      | 1,5      | 2    | 90L-4 | 1410 | 0,95       | 17                   | 814            | 82,1                 |                     |                      |    |    |    |    |         |     |     |     |     |
| 3      | 82       | 82,0 | 0,18  | 0,25 | 80A-8      | 690                  | 4,80           | 8,4                  | 192                 | 19,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,46           | 8,4                  | 267                 | 26,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,27           | 8,2                  | 407                 | 41,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,59           | 8,5                  | 579                 | 58,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,50 | 80A-6      | 930                  | 2,89           | 11                   | 293                 | 29,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80B-6      | 920                  | 1,92           | 11                   | 441                 | 44,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 90S-6      | 915                  | 1,40           | 11,2                 | 604                 | 60,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,66           | 17                   | 290                 | 29,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 1,95           | 17                   | 395                 | 39,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,33           | 17                   | 579                 | 58,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,33           | 17                   | 579                 | 58,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 1,5      | 2    | 90L-4 | 1410 | 0,98       | 17                   | 784            | 79,1                 |                     |                      |    |    |    |    |         |     |     |     |     |
| 3      | 79       | 79,1 | 0,18  | 0,25 | 80A-8      | 690                  | 4,96           | 8,7                  | 186                 | 18,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,25  | 0,35 | 80B-8      | 690                  | 3,57           | 8,7                  | 258                 | 26,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                  | 2,35           | 8,5                  | 393                 | 39,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                  | 1,65           | 8,9                  | 559                 | 56,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 2,75           | 18                   | 279                 | 28,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 2,01           | 18                   | 381                 | 38,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 1,37           | 18                   | 559                 | 56,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 1,37           | 18                   | 559                 | 56,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 1,5      | 2    | 90L-4 | 1410 | 1,01       | 18                   | 756            | 76,3                 |                     |                      |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 74       | 73,7 | 0,25  | 0,35 | 80B-8      | 690                     | 4,68   | 9,4                     | 240                    | 24,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 3,07   | 9,1                     | 365                    | 36,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 2,16   | 9,5                     | 520                    | 52,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 3,60   | 19                      | 260                    | 26,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 2,64   | 19                      | 355                    | 35,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,80   | 19                      | 520                    | 52,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,80   | 19                      | 520                    | 52,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                    | 1,33   | 19                      | 704                    | 71,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 1,05   | 19                      | 889                    | 89,7                    |    |    |    |    |         |     |     |     |     |
| 3      | 71       | 70,7 | 0,25  | 0,35 | 80B-8      | 690                     | 4,84   | 9,8                     | 230                    | 23,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 3,17   | 9,5                     | 351                    | 35,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 2,23   | 9,9                     | 500                    | 50,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 3,72   | 20                      | 250                    | 25,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 2,73   | 20                      | 341                    | 34,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,86   | 20                      | 500                    | 50,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,86   | 20                      | 500                    | 50,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                    | 1,37   | 20                      | 676                    | 68,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 1,09   | 20                      | 854                    | 86,2                    |    |    |    |    |         |     |     |     |     |
| 3      | 65       | 65,2 | 0,25  | 0,35 | 80B-8      | 690                     | 5,17   | 10,6                    | 212                    | 21,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 3,39   | 10,3                    | 324                    | 32,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 2,38   | 10,7                    | 460                    | 46,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 100LA-8    | 702                     | 1,75   | 10,8                    | 626                    | 63,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 100LB-8    | 702                     | 1,19   | 10,8                    | 918                    | 92,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 3,97   | 21                      | 230                    | 23,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 2,91   | 21                      | 314                    | 31,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 1,99   | 21                      | 460                    | 46,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 1,99   | 21                      | 460                    | 46,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                    | 1,47   | 22                      | 623                    | 62,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 1,16   | 22                      | 786                    | 79,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 1,01   | 22                      | 908                    | 91,6                    |    |    |    |    |         |     |     |     |     |
| 3      | 64       | 64,2 | 0,25  | 0,35 | 80B-8      | 690                     | 5,23   | 10,8                    | 209                    | 21,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 3,43   | 10,4                    | 319                    | 32,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 2,41   | 10,9                    | 454                    | 45,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 100LA-8    | 702                     | 1,77   | 10,9                    | 617                    | 62,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 100LB-8    | 702                     | 1,21   | 10,9                    | 905                    | 91,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 4,02   | 22                      | 227                    | 22,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 2,95   | 22                      | 309                    | 31,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 2,01   | 22                      | 454                    | 45,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 2,01   | 22                      | 454                    | 45,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                    | 1,48   | 22                      | 614                    | 61,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 1,18   | 22                      | 775                    | 78,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 1,02   | 22                      | 894                    | 90,2                    |    |    |    |    |         |     |     |     |     |
| 3      | 62       | 61,7 | 0,25  | 0,35 | 80B-8      | 690                     | 5,40   | 11,2                    | 201                    | 20,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,37  | 0,5  | 90S-8      | 670                     | 3,54   | 10,9                    | 306                    | 30,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 90L-8      | 700                     | 2,49   | 11,4                    | 436                    | 43,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 100LA-8    | 702                     | 1,83   | 11,4                    | 592                    | 59,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 100LB-8    | 702                     | 1,25   | 11,4                    | 869                    | 87,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                    | 4,15   | 23                      | 218                    | 22,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                    | 3,04   | 23                      | 297                    | 30,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                    | 2,08   | 23                      | 436                    | 43,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                    | 2,08   | 23                      | 436                    | 43,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                    | 1,53   | 23                      | 590                    | 59,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 1,21   | 23                      | 744                    | 75,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 1,05   | 23                      | 859                    | 86,7                    |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 57       | 56,8 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,43   | 25                   | 201                 | 20,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,25   | 25                   | 273                 | 27,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,22   | 25                   | 401                 | 40,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,22   | 25                   | 401                 | 40,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,64   | 25                   | 543                 | 54,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,30   | 25                   | 686                 | 69,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,12   | 25                   | 791                 | 79,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 55       | 54,7 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,59   | 26                   | 193                 | 19,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,37   | 26                   | 264                 | 26,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,30   | 26                   | 387                 | 39,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,30   | 26                   | 387                 | 39,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,70   | 26                   | 523                 | 52,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,34   | 26                   | 661                 | 66,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,16   | 26                   | 762                 | 76,9                 |    |    |    |    |         |     |     |     |     |
| 3      | 53       | 52,8 | 0,55  | 0,75 | 80A-4      | 1400                 | 4,75   | 27                   | 186                 | 18,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,48   | 27                   | 254                 | 25,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,38   | 27                   | 373                 | 37,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,38   | 27                   | 373                 | 37,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,75   | 27                   | 505                 | 50,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,39   | 27                   | 637                 | 64,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,20   | 27                   | 735                 | 74,2                 |    |    |    |    |         |     |     |     |     |
| 3      | 50       | 50,3 | 0,55  | 0,75 | 80A-4      | 1400                 | 5,03   | 28                   | 177                 | 17,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,69   | 28                   | 242                 | 24,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,51   | 28                   | 355                 | 35,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,51   | 28                   | 355                 | 35,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,86   | 28                   | 480                 | 48,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,47   | 28                   | 606                 | 61,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,27   | 28                   | 700                 | 70,6                 |    |    |    |    |         |     |     |     |     |
| 3      | 49       | 48,8 | 0,55  | 0,75 | 80A-4      | 1400                 | 5,17   | 29                   | 172                 | 17,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,79   | 29                   | 235                 | 23,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,58   | 29                   | 344                 | 34,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,58   | 29                   | 344                 | 34,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,91   | 29                   | 466                 | 47,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,51   | 29                   | 588                 | 59,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,31   | 29                   | 679                 | 68,5                 |    |    |    |    |         |     |     |     |     |
| 3      | 48       | 47,7 | 3     | 4    | 100LB-4    | 1420                 | 0,96   | 29                   | 926                 | 93,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 5,28   | 29                   | 168                 | 17,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,87   | 29                   | 230                 | 23,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,64   | 29                   | 337                 | 34,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,64   | 29                   | 337                 | 34,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,95   | 30                   | 456                 | 46,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,54   | 30                   | 576                 | 58,1                 |    |    |    |    |         |     |     |     |     |
| 3      | 46       | 46,1 | 2,2   | 3    | 100LA-4    | 1420                 | 1,34   | 30                   | 664                 | 67,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 0,98   | 30                   | 906                 | 91,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 5,11   | 30                   | 163                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,74   | 30                   | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,89   | 31                   | 441                 | 44,5                 |    |    |    |    |         |     |     |     |     |
| 3      | 46       | 46,1 | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,49   | 31                   | 557                 | 56,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,29   | 31                   | 642                 | 64,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 0,95   | 31                   | 876                 | 88,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 5,11   | 30                   | 163                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,74   | 30                   | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      | 46       | 46,1 | 1,5   | 2    | 90L-4      | 1410                 | 1,89   | 31                   | 441                 | 44,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,49   | 31                   | 557                 | 56,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,29   | 31                   | 642                 | 64,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 0,95   | 31                   | 876                 | 88,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 5,11   | 30                   | 163                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,74   | 30                   | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      | 46       | 46,1 | 1,1   | 1,5  | 90S-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,89   | 31                   | 441                 | 44,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,49   | 31                   | 557                 | 56,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,29   | 31                   | 642                 | 64,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 0,95   | 31                   | 876                 | 88,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 5,11   | 30                   | 163                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 3,74   | 30                   | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 46       | 46,1 | 1,1   | 1,5  | 80C-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,89   | 31                   | 441                 | 44,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,49   | 31                   | 557                 | 56,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,29   | 31                   | 642                 | 64,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 0,95   | 31                   | 876                 | 88,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 5,11   | 30                   | 163                 | 16,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 46       | 46,1 | 0,75  | 1    | 80B-4      | 1400                 | 3,74   | 30                   | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,55   | 30                   | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 1,89   | 31                   | 441                 | 44,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,49   | 31                   | 557                 | 56,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,29   | 31                   | 642                 | 64,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 0,95   | 31                   | 876                 | 88,4                 |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |  |
| 3      | 44       | 44,5 | 0,75  | 1    | 80B-4      | 1400                 | 4,22   | 31                   | 214                 | 21,6                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 2,87   | 31                   | 314                 | 31,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 2,87   | 31                   | 314                 | 31,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,12   | 32                   | 425                 | 42,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,68   | 32                   | 537                 | 54,1                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,46   | 32                   | 619                 | 62,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,07   | 32                   | 844                 | 85,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 43       | 42,5 | 0,75  | 1    | 80B-4      | 1400                 | 4,44   | 33                   | 205                 | 20,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,03   | 33                   | 300                 | 30,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,03   | 33                   | 300                 | 30,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,23   | 33                   | 407                 | 41,0                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,77   | 33                   | 513                 | 51,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,53   | 33                   | 592                 | 59,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,13   | 33                   | 807                 | 81,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 41       | 41,3 | 0,75  | 1    | 80B-4      | 1400                 | 4,60   | 34                   | 199                 | 20,1                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,14   | 34                   | 292                 | 29,4                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,14   | 34                   | 292                 | 29,4                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,32   | 34                   | 395                 | 39,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,84   | 34                   | 499                 | 50,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,59   | 34                   | 575                 | 58,0                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,17   | 34                   | 785                 | 79,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 38       | 37,8 | 0,75  | 1    | 80B-4      | 1400                 | 5,04   | 37                   | 182                 | 18,4                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,44   | 37                   | 267                 | 27,0                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,44   | 37                   | 267                 | 27,0                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,54   | 37                   | 362                 | 36,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,01   | 37                   | 457                 | 46,1                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,74   | 38                   | 527                 | 53,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,28   | 38                   | 719                 | 72,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 37       | 36,9 | 4     | 5,5  | 112M-4     | 1420                 | 0,96   | 38                   | 958                 | 96,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 5,17   | 38                   | 178                 | 17,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,52   | 38                   | 261                 | 26,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,52   | 38                   | 261                 | 26,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,60   | 38                   | 353                 | 35,6                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,06   | 38                   | 445                 | 44,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,79   | 38                   | 514                 | 51,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 36       | 36,1 | 3     | 4    | 100LB-4    | 1420                 | 1,31   | 38                   | 701                 | 70,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 0,98   | 38                   | 934                 | 94,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,55  | 0,75 | 80A-4      | 1400                 | 7,78   | 39                   | 127                 | 12,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 5,70   | 39                   | 174                 | 17,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 3,89   | 39                   | 255                 | 25,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 3,89   | 39                   | 255                 | 25,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                 | 2,87   | 39                   | 345                 | 34,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 35       | 34,7 | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,28   | 39                   | 436                 | 44,0                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 1,97   | 39                   | 503                 | 50,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,45   | 39                   | 686                 | 69,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 1,08   | 39                   | 914                 | 92,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 0,75  | 1    | 80B-4      | 1400                 | 5,92   | 40                   | 167                 | 16,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 80C-4      | 1400                 | 4,04   | 40                   | 245                 | 24,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5  | 90S-4      | 1400                 | 4,04   | 40                   | 245                 | 24,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 34       | 33,9 | 1,5   | 2    | 90L-4      | 1410                 | 2,98   | 41                   | 332                 | 33,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,36   | 41                   | 419                 | 42,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 2,05   | 41                   | 483                 | 48,7                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 1,50   | 41                   | 658                 | 66,4                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 1,13   | 41                   | 878                 | 88,6                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      |       |      |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      |       |      |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |  |

| 40     | ratio i: |      | input |     |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|-----|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp  | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |  |
| 3      | 32       | 31,9 | 1,1   | 1,5 | 90S-4      | 1400                    | 4,37   | 44                      | 226                    | 22,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,23   | 44                      | 305                    | 30,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 2,56   | 44                      | 386                    | 38,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,21   | 44                      | 445                    | 44,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,62   | 44                      | 607                    | 61,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,22   | 44                      | 809                    | 81,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,00   | 45                      | 990                    | 99,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 31       | 30,5 | 1,1   | 1,5 | 90S-4      | 1400                    | 4,22   | 46                      | 215                    | 21,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,11   | 46                      | 292                    | 29,4                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 2,47   | 46                      | 368                    | 37,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,14   | 47                      | 425                    | 42,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,57   | 47                      | 579                    | 58,4                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,18   | 47                      | 772                    | 77,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 0,96   | 48                      | 945                    | 95,4                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 30       | 29,7 | 1,1   | 1,5 | 90S-4      | 1400                    | 4,68   | 47                      | 210                    | 21,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,46   | 48                      | 284                    | 28,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 2,74   | 48                      | 358                    | 36,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,37   | 48                      | 413                    | 41,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,74   | 48                      | 564                    | 56,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,31   | 48                      | 752                    | 75,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,07   | 49                      | 920                    | 92,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 28       | 27,6 | 1,1   | 1,5 | 90S-4      | 1400                    | 4,96   | 51                      | 195                    | 19,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,67   | 51                      | 264                    | 26,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 2,90   | 51                      | 333                    | 33,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,52   | 51                      | 384                    | 38,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,85   | 51                      | 524                    | 52,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,38   | 51                      | 699                    | 70,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,13   | 53                      | 855                    | 86,3                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,03   | 53                      | 941                    | 94,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,1   | 1,5 | 90S-4      | 1400                    | 5,16   | 53                      | 187                    | 18,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 27       | 26,5 | 1,5   | 2   | 90L-4      | 1410                    | 3,81   | 53                      | 253                    | 25,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,02   | 53                      | 320                    | 32,3                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,62   | 54                      | 369                    | 37,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,92   | 54                      | 503                    | 50,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,44   | 54                      | 671                    | 67,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,18   | 55                      | 822                    | 82,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,07   | 55                      | 904                    | 91,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 25       | 25,4 | 1,1   | 1,5 | 90S-4      | 1400                    | 5,01   | 55                      | 180                    | 18,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,70   | 55                      | 243                    | 24,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 2,93   | 56                      | 307                    | 31,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,54   | 56                      | 354                    | 35,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,86   | 56                      | 483                    | 48,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,40   | 56                      | 644                    | 65,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,14   | 57                      | 788                    | 79,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,04   | 57                      | 867                    | 87,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 4,25   | 59                      | 229                    | 23,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      | 24       | 23,9 | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,37   | 59                      | 289                    | 29,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,92   | 59                      | 333                    | 33,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,14   | 59                      | 454                    | 45,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,60   | 59                      | 605                    | 61,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,31   | 61                      | 741                    | 74,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,19   | 61                      | 815                    | 82,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      |       |     |            |                         |        |                         |                        |                         |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                         | output |                         |                        |                          | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|--------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kg·m] |    |    |    |    |         |     |     |     |     |
| 3      | 23       | 22,7 | 1,5   | 2    | 90L-4      | 1410                    | 4,44   | 62                      | 217                    | 21,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 3,51   | 62                      | 274                    | 27,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 3,05   | 63                      | 316                    | 31,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                    | 2,23   | 63                      | 431                    | 43,5                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 1,68   | 63                      | 575                    | 58,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,37   | 64                      | 703                    | 71,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 1,24   | 64                      | 774                    | 78,1                     |    |    |    |    |         |     |     |     |     |
| 3      | 21       | 20,5 | 1,5   | 2    | 90L-4      | 1410                    | 4,89   | 69                      | 196                    | 19,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 3,88   | 69                      | 248                    | 25,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 3,36   | 69                      | 286                    | 28,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                    | 2,46   | 69                      | 389                    | 39,3                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 1,85   | 69                      | 519                    | 52,4                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,51   | 71                      | 636                    | 64,1                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 1,37   | 71                      | 699                    | 70,5                     |    |    |    |    |         |     |     |     |     |
| 3      | 20       | 20,3 | 7,5   | 10   | 132M-4     | 1450                    | 1,01   | 71                      | 954                    | 96,2                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2    | 90L-4      | 1410                    | 4,96   | 69                      | 194                    | 19,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 3,93   | 70                      | 245                    | 24,7                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 3,40   | 70                      | 283                    | 28,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                    | 2,50   | 70                      | 386                    | 38,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 1,87   | 70                      | 515                    | 51,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,53   | 71                      | 630                    | 63,6                     |    |    |    |    |         |     |     |     |     |
| 3      | 18       | 18,3 | 5,5   | 7,5  | 132S-4     | 1450                    | 1,39   | 71                      | 693                    | 69,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 1,02   | 71                      | 945                    | 95,3                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 4,34   | 77                      | 221                    | 22,2                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 3,76   | 78                      | 254                    | 25,7                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                    | 2,76   | 78                      | 347                    | 35,0                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 2,07   | 78                      | 463                    | 46,7                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,69   | 79                      | 566                    | 57,1                     |    |    |    |    |         |     |     |     |     |
| 3      | 16       | 16,1 | 5,5   | 7,5  | 132S-4     | 1450                    | 1,54   | 79                      | 623                    | 62,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 1,13   | 79                      | 850                    | 85,7                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 1,9   | 2,6  | 90LB-4     | 1415                    | 4,47   | 88                      | 198                    | 19,9                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 3,87   | 88                      | 228                    | 23,0                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4    | 100LB-4    | 1420                    | 2,84   | 88                      | 311                    | 31,4                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 2,13   | 88                      | 415                    | 41,8                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,74   | 90                      | 508                    | 51,2                     |    |    |    |    |         |     |     |     |     |
| 2      | 16       | 15,5 | 5,5   | 7,5  | 132S-4     | 1450                    | 1,58   | 90                      | 558                    | 56,3                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 1,16   | 90                      | 762                    | 76,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 4,40   | 91                      | 216                    | 21,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                    | 3,23   | 91                      | 295                    | 29,8                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 2,42   | 91                      | 393                    | 39,7                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,98   | 93                      | 482                    | 48,6                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 1,80   | 93                      | 530                    | 53,4                     |    |    |    |    |         |     |     |     |     |
| 3      | 15       | 15,4 | 7,5   | 10   | 132M-4     | 1450                    | 1,32   | 93                      | 722                    | 72,9                     |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 1,07   | 93                      | 886                    | 89,4                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3    | 100LA-4    | 1420                    | 4,08   | 92                      | 219                    | 22,1                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4    | 100LB-4    | 1420                    | 2,99   | 92                      | 299                    | 30,1                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 2,25   | 92                      | 398                    | 40,2                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 1,83   | 94                      | 488                    | 49,2                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 1,67   | 94                      | 536                    | 54,1                     |    |    |    |    |         |     |     |     |     |
| 2      | 15       |      | 7,5   | 10   | 132M-4     | 1450                    | 1,22   | 94                      | 731                    | 73,8                     |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 1,00   | 94                      | 897                    | 90,5                     |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 40     | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 15       | 15,0 | 2,2   | 3    | 100LA-4    | 1420                 | 4,56   | 95                   | 208                 | 21,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,35   | 95                   | 284                 | 28,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,51   | 95                   | 379                 | 38,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,05   | 97                   | 463                 | 46,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 1,86   | 97                   | 510                 | 51,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,37   | 97                   | 695                 | 70,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,11   | 97                   | 853                 | 86,0                 |    |    |    |    |         |     |     |     |     |
| 2      | 14       | 14,2 | 2,2   | 3    | 100LA-4    | 1420                 | 4,41   | 100                  | 202                 | 20,4                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,24   | 100                  | 275                 | 27,8                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,43   | 100                  | 367                 | 37,0                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 1,98   | 102                  | 449                 | 45,3                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 1,80   | 102                  | 494                 | 49,8                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,32   | 102                  | 674                 | 68,0                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,08   | 102                  | 826                 | 83,4                 |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 13,2 | 2,2   | 3    | 100LA-4    | 1420                 | 4,73   | 108                  | 188                 | 18,9                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,47   | 108                  | 256                 | 25,8                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,60   | 108                  | 341                 | 34,4                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,13   | 110                  | 417                 | 42,1                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 1,93   | 110                  | 459                 | 46,3                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,42   | 110                  | 626                 | 63,2                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,16   | 110                  | 768                 | 77,5                 |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 12,6 | 11    | 15   | 132MC-4    | 1460                 | 0,97   | 111                  | 912                 | 92,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 5,36   | 113                  | 176                 | 17,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,93   | 113                  | 240                 | 24,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,95   | 113                  | 319                 | 32,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,41   | 115                  | 391                 | 39,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,19   | 115                  | 430                 | 43,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,61   | 115                  | 587                 | 59,2                 |    |    |    |    |         |     |     |     |     |
| 3      | 12       | 11,9 | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,31   | 115                  | 719                 | 72,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,10   | 116                  | 854                 | 86,2                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 5,16   | 119                  | 170                 | 17,1                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,78   | 119                  | 231                 | 23,3                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,84   | 119                  | 308                 | 31,1                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,32   | 122                  | 377                 | 38,1                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,11   | 122                  | 415                 | 41,9                 |    |    |    |    |         |     |     |     |     |
| 2      | 11       | 10,6 | 7,5   | 10   | 132M-4     | 1450                 | 1,55   | 122                  | 566                 | 57,1                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,26   | 122                  | 694                 | 70,0                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,06   | 122                  | 824                 | 83,2                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 3     | 4    | 100LB-4    | 1420                 | 4,18   | 134                  | 206                 | 20,8                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 3,14   | 134                  | 275                 | 27,7                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,56   | 136                  | 336                 | 33,9                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,33   | 136                  | 370                 | 37,3                 |    |    |    |    |         |     |     |     |     |
| 2      | 11       | 10,6 | 7,5   | 10   | 132M-4     | 1450                 | 1,71   | 136                  | 504                 | 50,9                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,39   | 136                  | 619                 | 62,4                 |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,17   | 137                  | 734                 | 74,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4    | 100LB-4    | 1420                 | 4,57   | 134                  | 201                 | 20,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                 | 3,43   | 134                  | 268                 | 27,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,80   | 137                  | 328                 | 33,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,55   | 137                  | 360                 | 36,4                 |    |    |    |    |         |     |     |     |     |
| 3      | 11       | 10,6 | 7,5   | 10   | 132M-4     | 1450                 | 1,87   | 137                  | 492                 | 49,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,52   | 137                  | 603                 | 60,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,28   | 138                  | 716                 | 72,2                 |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

input connection **B5** IEC 72-1

| 40     |       | ratio i: |  | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|--|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     |  | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 10    | 9,6      |  | 3     | 4    | 100LB-4    | 1420                 | 4,98   | 147                  | 183                 | 18,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 4     | 5,5  | 112M-4     | 1420                 | 3,74   | 147                  | 244                 | 24,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 5     | 6,8  | 112MB-4    | 1450                 | 3,05   | 150                  | 299                 | 30,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 2,78   | 150                  | 329                 | 33,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 2,04   | 150                  | 448                 | 45,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,66   | 150                  | 550                 | 55,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 1,40   | 151                  | 653                 | 65,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 3     | 4    | 100LB-4    | 1420                 | 4,84   | 157                  | 175                 | 17,7                 |    |    |    |    |         |     |     |     |     |
| 2      | 9     | 9,0      |  | 4     | 5,5  | 112M-4     | 1420                 | 3,63   | 157                  | 233                 | 23,6                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5     | 6,8  | 112MB-4    | 1450                 | 2,96   | 160                  | 286                 | 28,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 2,69   | 160                  | 314                 | 31,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 1,98   | 160                  | 429                 | 43,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,61   | 160                  | 526                 | 53,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 1,36   | 162                  | 624                 | 63,0                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 3     | 4    | 100LB-4    | 1420                 | 5,13   | 186                  | 148                 | 14,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 4     | 5,5  | 112M-4     | 1420                 | 3,84   | 186                  | 197                 | 19,9                 |    |    |    |    |         |     |     |     |     |
| 2      | 8     | 7,6      |  | 5     | 6,8  | 112MB-4    | 1450                 | 3,14   | 190                  | 242                 | 24,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 2,86   | 190                  | 266                 | 26,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 2,09   | 190                  | 362                 | 36,6                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,71   | 190                  | 444                 | 44,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 1,44   | 191                  | 528                 | 53,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 4     | 5,5  | 112M-4     | 1420                 | 4,35   | 176                  | 205                 | 20,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 5     | 6,8  | 112MB-4    | 1450                 | 3,55   | 179                  | 250                 | 25,3                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 3,23   | 179                  | 276                 | 27,8                 |    |    |    |    |         |     |     |     |     |
| 3      | 8     | 8,1      |  | 7,5   | 10   | 132M-4     | 1450                 | 2,37   | 179                  | 376                 | 37,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,93   | 179                  | 461                 | 46,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 1,63   | 181                  | 547                 | 55,2                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 4     | 5,5  | 112M-4     | 1420                 | 4,26   | 209                  | 176                 | 17,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5     | 6,8  | 112MB-4    | 1450                 | 3,48   | 213                  | 215                 | 21,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 3,16   | 213                  | 236                 | 23,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 2,32   | 213                  | 322                 | 32,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,89   | 213                  | 396                 | 39,9                 |    |    |    |    |         |     |     |     |     |
| 2      | 7     | 6,8      |  | 11    | 15   | 132MC-4    | 1460                 | 1,59   | 215                  | 470                 | 47,4                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 3,40   | 427                  | 198                 | 20,0                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 2,85   | 427                  | 236                 | 23,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 4     | 5,5  | 112M-4     | 1420                 | 4,54   | 214                  | 172                 | 17,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5     | 6,8  | 112MB-4    | 1450                 | 3,71   | 218                  | 210                 | 21,2                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 3,37   | 218                  | 231                 | 23,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 2,47   | 218                  | 315                 | 31,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 2,02   | 218                  | 387                 | 39,0                 |    |    |    |    |         |     |     |     |     |
| 2      | 6,5   | 6,6      |  | 11    | 15   | 132MC-4    | 1460                 | 1,70   | 220                  | 459                 | 46,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 3,63   | 436                  | 193                 | 19,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 3,04   | 436                  | 231                 | 23,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5     | 6,8  | 112MB-4    | 1450                 | 4,36   | 259                  | 177                 | 17,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 3,97   | 259                  | 195                 | 19,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 2,91   | 259                  | 266                 | 26,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 2,37   | 259                  | 326                 | 32,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 2,00   | 260                  | 388                 | 39,1                 |    |    |    |    |         |     |     |     |     |
| 2      | 5,5   | 5,6      |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 4,27   | 517                  | 163                 | 16,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 3,57   | 517                  | 195                 | 19,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 4,72   | 304                  | 166                 | 16,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 3,46   | 304                  | 227                 | 22,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 2,82   | 304                  | 278                 | 28,0                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 2,38   | 306                  | 330                 | 33,3                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 5,08   | 607                  | 139                 | 14,0                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 4,25   | 607                  | 166                 | 16,8                 |    |    |    |    |         |     |     |     |     |

| 40     |       | ratio i: |  | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|--|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     |  | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 2      | 4,5   | 4,7      |  | 5,5   | 7,5  | 132S-4     | 1450                 | 4,70   | 308                  | 164                 | 16,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 3,45   | 308                  | 223                 | 22,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 2,81   | 308                  | 274                 | 27,6                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 2,37   | 311                  | 325                 | 32,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 5,06   | 617                  | 137                 | 13,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 4,23   | 617                  | 164                 | 16,5                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 5,28   | 360                  | 140                 | 14,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 3,88   | 360                  | 191                 | 19,3                 |    |    |    |    |         |     |     |     |     |
| 2      | 4     | 4,0      |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 3,16   | 360                  | 235                 | 23,7                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 2,66   | 362                  | 278                 | 28,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 5,69   | 720                  | 117                 | 11,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 4,76   | 720                  | 140                 | 14,1                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 5,5   | 7,5  | 132S-4     | 1450                 | 6,23   | 429                  | 117                 | 11,9                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 7,5   | 10   | 132M-4     | 1450                 | 4,57   | 429                  | 160                 | 16,2                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 9,2   | 12,5 | 132MB-4    | 1450                 | 3,72   | 429                  | 197                 | 19,8                 |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MC-4    | 1460                 | 3,13   | 432                  | 233                 | 23,5                 |    |    |    |    |         |     |     |     |     |
| 2      | 3,5   | 3,4      |  | 9,2   | 12,5 | 132MA-2    | 2900                 | 6,70   | 859                  | 98                  | 9,9                  |    |    |    |    |         |     |     |     |     |
| 2      |       |          |  | 11    | 15   | 132MB-2    | 2900                 | 5,60   | 859                  | 117                 | 11,9                 |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 50     | ratio i: |       | input   |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|-------|---------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real  | kW      | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 118      | 118,4 | 0,55    | 0,75 | 90L-8      | 700                  | 2,26   | 5,9                  | 836                 | 84,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 100LA-8    | 702                  | 1,66   | 5,9                  | 1137                | 114,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 100LB-8    | 702                  | 1,13   | 5,9                  | 1667                | 168,2                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 90S-6      | 915                  | 1,98   | 7,7                  | 872                 | 88,0                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90L-6      | 915                  | 1,35   | 7,7                  | 1279                | 129,0                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 100L-6     | 944                  | 1,02   | 8,0                  | 1692                | 170,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90S-4      | 1400                 | 1,88   | 12                   | 836                 | 84,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 90L-4      | 1410                 | 1,39   | 12                   | 1132                | 114,2                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9     | 2,6  | 90LB-4     | 1415                 | 1,10   | 12                   | 1429                | 144,2                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2     | 3    | 100LA-4    | 1420                 | 0,95   | 12                   | 1649                | 166,4                |    |    |    |    |         |     |     |     |     |
| 3      | 117      | 117,2 | 0,55    | 0,75 | 90L-8      | 700                  | 2,27   | 6,0                  | 828                 | 83,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 100LA-8    | 702                  | 1,67   | 6,0                  | 1125                | 113,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 100LB-8    | 702                  | 1,14   | 6,0                  | 1651                | 166,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 90S-6      | 915                  | 2,00   | 7,8                  | 863                 | 87,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90L-6      | 915                  | 1,36   | 7,8                  | 1266                | 127,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 100L-6     | 944                  | 1,03   | 8,1                  | 1673                | 168,8                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2     | 3    | 112M-6     | 950                  | 0,71   | 8,1                  | 2438                | 246,0                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90S-4      | 1400                 | 1,90   | 12                   | 827                 | 83,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 90L-4      | 1410                 | 1,40   | 12                   | 1121                | 113,1                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9     | 2,6  | 90LB-4     | 1415                 | 1,11   | 12                   | 1414                | 142,6                |    |    |    |    |         |     |     |     |     |
| 3      | 2,2      | 3     | 100LA-4 | 1420 | 0,96       | 12                   | 1632   | 164,6                |                     |                      |    |    |    |    |         |     |     |     |     |
| 3      | 108      | 108,3 | 0,55    | 0,75 | 90L-8      | 700                  | 2,64   | 6,5                  | 765                 | 77,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 100LA-8    | 702                  | 1,94   | 6,5                  | 1040                | 105,0                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 100LB-8    | 702                  | 1,32   | 6,5                  | 1526                | 153,9                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 90S-6      | 915                  | 2,32   | 8,5                  | 798                 | 80,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90L-6      | 915                  | 1,58   | 8,5                  | 1170                | 118,1                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 100L-6     | 944                  | 1,20   | 8,7                  | 1546                | 156,0                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90S-4      | 1400                 | 2,20   | 13                   | 765                 | 77,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 90L-4      | 1410                 | 1,62   | 13                   | 1036                | 104,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9     | 2,6  | 90LB-4     | 1415                 | 1,29   | 13                   | 1308                | 131,9                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2     | 3    | 100LA-4    | 1420                 | 1,11   | 13                   | 1508                | 152,2                |    |    |    |    |         |     |     |     |     |
| 3      | 107      | 107,2 | 0,55    | 0,75 | 90L-8      | 700                  | 2,66   | 6,5                  | 757                 | 76,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 100LA-8    | 702                  | 1,96   | 6,6                  | 1029                | 103,8                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 100LB-8    | 702                  | 1,33   | 6,6                  | 1509                | 152,3                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 90S-6      | 915                  | 2,34   | 8,5                  | 789                 | 79,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90L-6      | 915                  | 1,59   | 8,5                  | 1158                | 116,8                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 100L-6     | 944                  | 1,21   | 8,8                  | 1530                | 154,4                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90S-4      | 1400                 | 2,22   | 13                   | 757                 | 76,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 90L-4      | 1410                 | 1,64   | 13                   | 1025                | 103,4                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9     | 2,6  | 90LB-4     | 1415                 | 1,30   | 13                   | 1294                | 130,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2     | 3    | 100LA-4    | 1420                 | 1,12   | 13                   | 1492                | 150,6                |    |    |    |    |         |     |     |     |     |
| 3      | 102      | 101,7 | 0,55    | 0,75 | 90L-8      | 700                  | 2,54   | 6,9                  | 719                 | 72,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 100LA-8    | 702                  | 1,87   | 6,9                  | 977                 | 98,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 100LB-8    | 702                  | 1,27   | 6,9                  | 1433                | 144,6                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75    | 1    | 90S-6      | 915                  | 2,23   | 9,0                  | 750                 | 75,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90L-6      | 915                  | 1,52   | 9,0                  | 1100                | 111,0                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 100L-6     | 944                  | 1,15   | 9,3                  | 1453                | 146,6                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1     | 1,5  | 90S-4      | 1400                 | 2,12   | 14                   | 719                 | 72,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5     | 2    | 90L-4      | 1410                 | 1,56   | 14                   | 973                 | 98,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9     | 2,6  | 90LB-4     | 1415                 | 1,24   | 14                   | 1228                | 123,9                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2     | 3    | 100LA-4    | 1420                 | 1,07   | 14                   | 1417                | 142,9                |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 50     | ratio i: |       | input |      |            |                      | output         |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|-------|-------|------|------------|----------------------|----------------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real  | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | f <sub>s</sub> | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [KgM] |    |    |    |    |         |     |     |     |     |
| 3      | 101      | 100,7 | 0,55  | 0,75 | 90L-8      | 700                  | 2,56           | 7,0                  | 711                 | 71,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 100LA-8    | 702                  | 1,89           | 7,0                  | 967                 | 97,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 100LB-8    | 702                  | 1,29           | 7,0                  | 1419                | 143,1                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 90S-6      | 915                  | 2,25           | 9,1                  | 742                 | 74,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90L-6      | 915                  | 1,54           | 9,1                  | 1088                | 109,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 100L-6     | 944                  | 1,16           | 9,4                  | 1439                | 145,2                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90S-4      | 1400                 | 2,14           | 14                   | 711                 | 71,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 90L-4      | 1410                 | 1,58           | 14                   | 963                 | 97,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,25           | 14                   | 1216                | 122,6                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2   | 3    | 100LA-4    | 1420                 | 1,08           | 14                   | 1402                | 141,5                |    |    |    |    |         |     |     |     |     |
| 3      | 92       | 92,1  | 0,55  | 0,75 | 90L-8      | 700                  | 2,99           | 7,6                  | 650                 | 65,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 100LA-8    | 702                  | 2,20           | 7,6                  | 885                 | 89,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 100LB-8    | 702                  | 1,50           | 7,6                  | 1298                | 130,9                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 112M-8     | 710                  | 1,11           | 7,7                  | 1749                | 176,4                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 90S-6      | 915                  | 2,63           | 9,9                  | 679                 | 68,5                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90L-6      | 915                  | 1,79           | 9,9                  | 996                 | 100,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 100L-6     | 944                  | 1,35           | 10,3                 | 1315                | 132,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2   | 3    | 112M-6     | 950                  | 0,93           | 10,3                 | 1918                | 193,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90S-4      | 1400                 | 2,49           | 15                   | 650                 | 65,6                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 90L-4      | 1410                 | 1,84           | 15                   | 881                 | 88,9                 |    |    |    |    |         |     |     |     |     |
| 3      | 88       | 87,5  | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,46           | 15                   | 1112                | 112,2                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2   | 3    | 100LA-4    | 1420                 | 1,26           | 15                   | 1283                | 129,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 3     | 4    | 100LB-4    | 1420                 | 0,93           | 15                   | 1750                | 176,5                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 90L-8      | 700                  | 3,44           | 8,0                  | 618                 | 62,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 100LA-8    | 702                  | 2,53           | 8,0                  | 841                 | 84,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 100LB-8    | 702                  | 1,72           | 8,0                  | 1233                | 124,4                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 112M-8     | 710                  | 1,28           | 8,1                  | 1662                | 167,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90S-4      | 1400                 | 2,87           | 16                   | 618                 | 62,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 90L-4      | 1410                 | 2,12           | 16                   | 837                 | 84,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9   | 2,6  | 90LB-4     | 1415                 | 1,68           | 16                   | 1056                | 106,6                |    |    |    |    |         |     |     |     |     |
| 3      | 84       | 83,9  | 2,2   | 3    | 100LA-4    | 1420                 | 1,45           | 16                   | 1218                | 122,9                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 3     | 4    | 100LB-4    | 1420                 | 1,07           | 16                   | 1661                | 167,6                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 90L-8      | 700                  | 4,12           | 8,4                  | 592                 | 59,7                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 100LA-8    | 702                  | 3,03           | 8,4                  | 805                 | 81,3                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 100LB-8    | 702                  | 2,07           | 8,4                  | 1181                | 119,2                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 112M-8     | 710                  | 1,53           | 8,5                  | 1594                | 160,8                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90S-4      | 1400                 | 3,44           | 17                   | 592                 | 59,8                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 90L-4      | 1410                 | 2,54           | 17                   | 802                 | 80,9                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,01           | 17                   | 1012                | 102,1                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2   | 3    | 100LA-4    | 1420                 | 1,74           | 17                   | 1168                | 117,8                |    |    |    |    |         |     |     |     |     |
| 3      | 83       | 83,0  | 3     | 4    | 100LB-4    | 1420                 | 1,28           | 17                   | 1593                | 160,7                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,55  | 0,75 | 90L-8      | 700                  | 4,16           | 8,4                  | 586                 | 59,2                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 0,75  | 1    | 100LA-8    | 702                  | 3,06           | 8,5                  | 797                 | 80,4                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 100LB-8    | 702                  | 2,08           | 8,5                  | 1169                | 117,9                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 112M-8     | 710                  | 1,55           | 8,6                  | 1577                | 159,1                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,1   | 1,5  | 90S-4      | 1400                 | 3,46           | 17                   | 586                 | 59,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,5   | 2    | 90L-4      | 1410                 | 2,56           | 17                   | 794                 | 80,1                 |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 1,9   | 2,6  | 90LB-4     | 1415                 | 2,03           | 17                   | 1002                | 101,1                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 2,2   | 3    | 100LA-4    | 1420                 | 1,76           | 17                   | 1156                | 116,6                |    |    |    |    |         |     |     |     |     |
| 3      |          |       | 3     | 4    | 100LB-4    | 1420                 | 1,29           | 17                   | 1576                | 159,0                |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 50     |       | ratio i: |      | input |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 80    | 80,1     | 0,55 | 0,75  | 90L-8      | 700                  | 4,13   | 8,7                  | 566                 | 57,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 100LA-8    | 702                  | 3,04   | 8,8                  | 769                 | 77,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 100LB-8    | 702                  | 2,07   | 8,8                  | 1127                | 113,7                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 112M-8     | 710                  | 1,54   | 8,9                  | 1520                | 153,4                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 3,45   | 17                   | 565                 | 57,0                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,54   | 18                   | 766                 | 77,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,02   | 18                   | 966                 | 97,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,75   | 18                   | 1115                | 112,5                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,28   | 18                   | 1520                | 153,4                |    |    |    |    |         |     |     |     |     |
| 3      |       |          |      |       |            |                      |        |                      |                     |                      |    |    |    |    |         |     |     |     |     |
| 3      | 72    | 72,1     | 0,55 | 0,75  | 90L-8      | 700                  | 4,66   | 9,7                  | 509                 | 51,4                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 100LA-8    | 702                  | 3,42   | 9,7                  | 692                 | 69,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 100LB-8    | 702                  | 2,34   | 9,7                  | 1015                | 102,4                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 112M-8     | 710                  | 1,73   | 9,9                  | 1369                | 138,1                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 3,88   | 19                   | 509                 | 51,4                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,87   | 20                   | 689                 | 69,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,27   | 20                   | 870                 | 87,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,97   | 20                   | 1004                | 101,3                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,44   | 20                   | 1369                | 138,1                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4    | 5,5   | 112M-4     | 1420                 | 1,08   | 20                   | 1825                | 184,1                |    |    |    |    |         |     |     |     |     |
| 3      | 71    | 71,3     | 0,55 | 0,75  | 90L-8      | 700                  | 4,70   | 9,8                  | 504                 | 50,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 0,75 | 1     | 100LA-8    | 702                  | 3,45   | 9,8                  | 685                 | 69,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 100LB-8    | 702                  | 2,35   | 9,8                  | 1005                | 101,4                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 112M-8     | 710                  | 1,75   | 10                   | 1355                | 136,7                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 3,91   | 20                   | 504                 | 50,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 2,89   | 20                   | 682                 | 68,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,29   | 20                   | 861                 | 86,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 1,98   | 20                   | 994                 | 100,3                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,46   | 20                   | 1355                | 136,7                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4    | 5,5   | 112M-4     | 1420                 | 1,09   | 20                   | 1807                | 182,3                |    |    |    |    |         |     |     |     |     |
| 3      | 65    | 65,2     | 1,1  | 1,5   | 90S-4      | 1400                 | 4,21   | 21                   | 461                 | 46,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 3,11   | 22                   | 624                 | 62,9                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,46   | 22                   | 787                 | 79,4                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 2,13   | 22                   | 908                 | 91,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,56   | 22                   | 1239                | 125,0                |    |    |    |    |         |     |     |     |     |
| 3      | 62    | 62,0     | 1,1  | 1,5   | 90S-4      | 1400                 | 4,38   | 23                   | 438                 | 44,2                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 3,24   | 23                   | 593                 | 59,8                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,56   | 23                   | 748                 | 75,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 2,22   | 23                   | 863                 | 87,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,63   | 23                   | 1177                | 118,8                |    |    |    |    |         |     |     |     |     |
| 3      | 60    | 59,6     | 1,1  | 1,5   | 90S-4      | 1400                 | 4,06   | 24                   | 421                 | 42,4                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 3,00   | 24                   | 570                 | 57,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,37   | 24                   | 719                 | 72,5                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 2,06   | 24                   | 830                 | 83,7                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,51   | 24                   | 1132                | 114,2                |    |    |    |    |         |     |     |     |     |
| 3      | 56    | 55,6     | 4    | 5,5   | 112M-4     | 1420                 | 1,13   | 24                   | 1509                | 152,2                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1  | 1,5   | 90S-4      | 1400                 | 4,86   | 25                   | 393                 | 39,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5  | 2     | 90L-4      | 1410                 | 3,59   | 25                   | 532                 | 53,6                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,9  | 2,6   | 90LB-4     | 1415                 | 2,84   | 25                   | 671                 | 67,7                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2  | 3     | 100LA-4    | 1420                 | 2,46   | 26                   | 774                 | 78,1                 |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3    | 4     | 100LB-4    | 1420                 | 1,81   | 26                   | 1056                | 106,5                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4    | 5,5   | 112M-4     | 1420                 | 1,35   | 26                   | 1408                | 142,0                |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5    | 6,8   | 112MB-4    | 1450                 | 1,11   | 26                   | 1723                | 173,9                |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 50     | ratio i: |      | input |     |            |                         | output         |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|-----|------------|-------------------------|----------------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp  | motor type | n <sub>1</sub><br>[rpm] | f <sub>s</sub> | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 52       | 52,0 | 1,1   | 1,5 | 90S-4      | 1400                    | 5,17           | 27                      | 367                    | 37,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,82           | 27                      | 497                    | 50,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,03           | 27                      | 627                    | 63,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,62           | 27                      | 724                    | 73,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,92           | 27                      | 987                    | 99,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,44           | 27                      | 1316                   | 132,8                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,18           | 28                      | 1611                   | 162,6                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,07           | 28                      | 1773                   | 178,8                   |    |    |    |    |         |     |     |     |     |
| 3      | 51       | 51,5 | 1,1   | 1,5 | 90S-4      | 1400                    | 5,22           | 27                      | 363                    | 36,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,5   | 2   | 90L-4      | 1410                    | 3,86           | 27                      | 492                    | 49,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,06           | 28                      | 621                    | 62,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,65           | 28                      | 716                    | 72,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 1,94           | 28                      | 977                    | 98,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,46           | 28                      | 1303                   | 131,4                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,19           | 28                      | 1595                   | 160,9                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,08           | 28                      | 1754                   | 177,0                   |    |    |    |    |         |     |     |     |     |
| 3      | 48       | 47,8 | 1,5   | 2   | 90L-4      | 1410                    | 4,14           | 30                      | 457                    | 46,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,28           | 30                      | 577                    | 58,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 2,84           | 30                      | 666                    | 67,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,08           | 30                      | 908                    | 91,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,56           | 30                      | 1210                   | 122,1                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,28           | 30                      | 1481                   | 149,4                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,16           | 30                      | 1629                   | 164,4                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      |       |     |            |                         |                |                         |                        |                         |    |    |    |    |         |     |     |     |     |
| 3      | 45       | 44,7 | 1,5   | 2   | 90L-4      | 1410                    | 4,41           | 32                      | 427                    | 43,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,49           | 32                      | 540                    | 54,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,03           | 32                      | 623                    | 62,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,22           | 32                      | 849                    | 85,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,66           | 32                      | 1132                   | 114,2                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,36           | 32                      | 1386                   | 139,8                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,24           | 32                      | 1524                   | 153,8                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      |       |     |            |                         |                |                         |                        |                         |    |    |    |    |         |     |     |     |     |
| 3      | 41       | 41,0 | 1,5   | 2   | 90L-4      | 1410                    | 4,78           | 34                      | 393                    | 39,6                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,78           | 34                      | 495                    | 50,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,28           | 35                      | 572                    | 57,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,40           | 35                      | 780                    | 78,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,80           | 35                      | 1039                   | 104,9                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,47           | 35                      | 1272                   | 128,4                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,34           | 35                      | 1400                   | 141,2                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10  | 132M-4     | 1450                    | 0,98           | 35                      | 1909                   | 192,6                   |    |    |    |    |         |     |     |     |     |
| 3      | 40       | 40,4 | 1,5   | 2   | 90L-4      | 1410                    | 4,84           | 35                      | 387                    | 39,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 3,84           | 35                      | 488                    | 49,2                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,33           | 35                      | 563                    | 56,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,44           | 35                      | 768                    | 77,5                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 1,83           | 35                      | 1024                   | 103,3                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,49           | 36                      | 1253                   | 126,4                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,36           | 36                      | 1378                   | 139,1                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10  | 132M-4     | 1450                    | 1,00           | 36                      | 0                      | 0,0                     |    |    |    |    |         |     |     |     |     |
| 3      | 36       | 35,7 | 1,5   | 2   | 90L-4      | 1410                    | 5,45           | 40                      | 341                    | 34,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 1,9   | 2,6 | 90LB-4     | 1415                    | 4,32           | 40                      | 430                    | 43,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 2,2   | 3   | 100LA-4    | 1420                    | 3,74           | 40                      | 497                    | 50,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 3     | 4   | 100LB-4    | 1420                    | 2,75           | 40                      | 677                    | 68,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 4     | 5,5 | 112M-4     | 1420                    | 2,06           | 40                      | 903                    | 91,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5     | 6,8 | 112MB-4    | 1450                    | 1,68           | 41                      | 1106                   | 111,5                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5 | 132S-4     | 1450                    | 1,53           | 41                      | 1216                   | 122,7                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10  | 132M-4     | 1450                    | 1,12           | 41                      | 1658                   | 167,3                   |    |    |    |    |         |     |     |     |     |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 50     |    | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages |    | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 35 | 35,4     |      | 2,2   | 3    | 100LA-4    | 1420                 | 3,96   | 40                   | 493                 | 49,8                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 2,90   | 40                   | 673                 | 67,9                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,18   | 40                   | 897                 | 90,5                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 1,78   | 41                   | 1098                | 110,8                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 1,62   | 41                   | 1208                | 121,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,19   | 41                   | 1647                | 166,2                |    |    |    |    |         |     |     |     |     |
| 3      | 33 | 32,5     |      | 2,2   | 3    | 100LA-4    | 1420                 | 4,48   | 44                   | 453                 | 45,7                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,28   | 44                   | 618                 | 62,3                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,46   | 44                   | 823                 | 83,1                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,01   | 45                   | 1008                | 101,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 1,83   | 45                   | 1109                | 111,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,34   | 45                   | 1512                | 152,5                |    |    |    |    |         |     |     |     |     |
| 3      | 32 | 32,2     |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,09   | 45                   | 1855                | 187,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 4,52   | 44                   | 448                 | 45,2                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,32   | 44                   | 611                 | 61,7                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,49   | 44                   | 815                 | 82,2                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,03   | 45                   | 998                 | 100,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 1,85   | 45                   | 1097                | 110,7                |    |    |    |    |         |     |     |     |     |
| 3      | 28 | 28,0     |      | 7,5   | 10   | 132M-4     | 1450                 | 1,35   | 45                   | 1496                | 151,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,10   | 45                   | 1836                | 185,2                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3    | 100LA-4    | 1420                 | 5,17   | 51                   | 389                 | 39,3                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,79   | 51                   | 531                 | 53,6                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,84   | 51                   | 708                 | 71,4                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,32   | 52                   | 867                 | 87,5                 |    |    |    |    |         |     |     |     |     |
| 3      | 26 | 25,9     |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,11   | 52                   | 953                 | 96,2                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,55   | 52                   | 1300                | 131,2                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,26   | 52                   | 1595                | 160,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,06   | 52                   | 1894                | 191,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 160M-4     | 1460                 | 1,06   | 52                   | 1892                | 190,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 4,09   | 55                   | 493                 | 49,7                 |    |    |    |    |         |     |     |     |     |
| 3      | 25 | 25,3     |      | 4     | 5,5  | 112M-4     | 1420                 | 3,07   | 55                   | 657                 | 66,3                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,51   | 56                   | 804                 | 81,1                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,28   | 56                   | 885                 | 89,2                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,67   | 56                   | 1206                | 121,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,36   | 56                   | 1480                | 149,3                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,15   | 56                   | 1757                | 177,3                |    |    |    |    |         |     |     |     |     |
| 3      | 24 | 24,1     |      | 11    | 15   | 160M-4     | 1460                 | 1,15   | 56                   | 1755                | 177,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 4,17   | 56                   | 480                 | 48,5                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5  | 112M-4     | 1420                 | 3,13   | 56                   | 640                 | 64,6                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,56   | 57                   | 784                 | 79,1                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,32   | 57                   | 862                 | 87,0                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,70   | 57                   | 1176                | 118,6                |    |    |    |    |         |     |     |     |     |
| 3      | 24 | 24,1     |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,39   | 57                   | 1442                | 145,5                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,17   | 58                   | 1713                | 172,8                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 160M-4     | 1460                 | 1,17   | 58                   | 1710                | 172,6                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4    | 100LB-4    | 1420                 | 3,99   | 59                   | 457                 | 46,1                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5  | 112M-4     | 1420                 | 2,99   | 59                   | 609                 | 61,5                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8  | 112MB-4    | 1450                 | 2,44   | 60                   | 746                 | 75,2                 |    |    |    |    |         |     |     |     |     |
| 3      | 24 | 24,1     |      | 5,5   | 7,5  | 132S-4     | 1450                 | 2,22   | 60                   | 820                 | 82,8                 |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 7,5   | 10   | 132M-4     | 1450                 | 1,63   | 60                   | 1119                | 112,8                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 1,33   | 60                   | 1372                | 138,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 132MC-4    | 1460                 | 1,12   | 61                   | 1629                | 164,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 11    | 15   | 160M-4     | 1460                 | 1,12   | 61                   | 1627                | 164,2                |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 50     | ratio i: |      | input |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |  |
| 3      | 22       | 22,3 | 3     | 4    | 100LB-4    | 1420                    | 4,95   | 64                      | 424                    | 42,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5  | 112M-4     | 1420                    | 3,71   | 64                      | 565                    | 57,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,03   | 65                      | 692                    | 69,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 2,75   | 65                      | 761                    | 76,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,02   | 65                      | 1037                   | 104,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 1,65   | 65                      | 1272                   | 128,4                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,39   | 65                      | 1511                   | 152,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,39   | 65                      | 1509                   | 152,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,02   | 65                      | 2058                   | 207,6                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 20       | 20,2 | 4     | 5,5  | 112M-4     | 1420                    | 4,09   | 70                      | 511                    | 51,5                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,34   | 72                      | 625                    | 63,1                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 3,04   | 72                      | 688                    | 69,4                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,23   | 72                      | 938                    | 94,6                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 1,82   | 72                      | 1151                   | 116,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,53   | 72                      | 1366                   | 137,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,53   | 72                      | 1365                   | 137,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,12   | 72                      | 1861                   | 187,8                   |    |    |    |    |         |     |     |     |     |  |
| 2      | 18       | 18,2 | 4     | 5,5  | 112M-4     | 1420                    | 3,74   | 78                      | 470                    | 47,4                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,05   | 80                      | 575                    | 58,0                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 2,78   | 80                      | 632                    | 63,8                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,04   | 80                      | 862                    | 87,0                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 1,66   | 80                      | 1058                   | 106,7                   |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,40   | 80                      | 1256                   | 126,7                   |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,40   | 80                      | 1229                   | 124,0                   |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,02   | 80                      | 1676                   | 169,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 17       | 17,2 | 4     | 5,5  | 112M-4     | 1420                    | 4,78   | 83                      | 436                    | 43,9                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,90   | 84                      | 533                    | 53,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 3,55   | 84                      | 586                    | 59,2                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,60   | 84                      | 800                    | 80,7                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 2,12   | 84                      | 981                    | 99,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,79   | 85                      | 1165                   | 117,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,79   | 85                      | 1163                   | 117,4                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,31   | 85                      | 1586                   | 160,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 18,5  | 25   | 180M-4     | 1470                    | 1,07   | 85                      | 1943                   | 196,1                   |    |    |    |    |         |     |     |     |     |  |
| 2      | 16       | 16,3 | 4     | 5,5  | 112M-4     | 1420                    | 4,25   | 87                      | 422                    | 42,6                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,47   | 89                      | 517                    | 52,1                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 3,16   | 89                      | 568                    | 57,4                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,31   | 89                      | 775                    | 78,2                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 1,89   | 89                      | 951                    | 95,9                    |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,59   | 89                      | 1129                   | 113,9                   |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,59   | 89                      | 1105                   | 111,5                   |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,17   | 89                      | 1507                   | 152,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 16       | 16,0 | 4     | 5,5  | 112M-4     | 1420                    | 4,85   | 89                      | 405                    | 40,8                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,96   | 91                      | 495                    | 50,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 3,60   | 91                      | 545                    | 55,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,64   | 91                      | 743                    | 75,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 2,15   | 91                      | 911                    | 92,0                    |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,81   | 91                      | 1082                   | 109,2                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,81   | 91                      | 1081                   | 109,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,33   | 91                      | 1474                   | 148,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 18,5  | 25   | 180M-4     | 1470                    | 1,09   | 92                      | 1806                   | 182,2                   |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

input connection **B5** IEC 72-1

| 50     | ratio i: |      | input |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |
| 2      | 14       | 14,1 | 4     | 5,5  | 112M-4     | 1420                    | 4,59   | 101                     | 363                    | 36,6                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 3,75   | 103                     | 444                    | 44,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 3,41   | 103                     | 489                    | 49,3                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,50   | 103                     | 667                    | 67,3                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 2,04   | 103                     | 818                    | 82,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 1,72   | 104                     | 971                    | 98,0                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 1,72   | 104                     | 950                    | 95,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,26   | 104                     | 1296                   | 130,8                   |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 12,7 | 4     | 5,5  | 112M-4     | 1420                    | 5,41   | 112                     | 328                    | 33,1                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5     | 6,8  | 112MB-4    | 1450                    | 4,42   | 114                     | 402                    | 40,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 4,01   | 114                     | 442                    | 44,6                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 2,94   | 114                     | 603                    | 60,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 2,40   | 114                     | 739                    | 74,6                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 2,02   | 115                     | 878                    | 88,6                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 2,02   | 115                     | 859                    | 86,7                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,48   | 115                     | 1172                   | 118,2                   |    |    |    |    |         |     |     |     |     |
| 2      | 13       | 12,8 | 18,5  | 25   | 180M-4     | 1470                    | 1,21   | 116                     | 1436                   | 144,8                   |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                    | 1,02   | 116                     | 1707                   | 172,2                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 4,74   | 114                     | 435                    | 43,9                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 3,48   | 114                     | 593                    | 59,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 2,84   | 114                     | 727                    | 73,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 2,39   | 115                     | 863                    | 87,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 2,39   | 115                     | 862                    | 87,0                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,75   | 115                     | 1176                   | 118,6                   |    |    |    |    |         |     |     |     |     |
| 2      | 11       | 10,8 | 18,5  | 25   | 180M-4     | 1470                    | 1,43   | 115                     | 1440                   | 145,3                   |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                    | 1,20   | 115                     | 1713                   | 172,8                   |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 4,68   | 134                     | 377                    | 38,0                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 3,43   | 134                     | 514                    | 51,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 2,80   | 134                     | 630                    | 63,6                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 2,36   | 135                     | 749                    | 75,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 2,36   | 135                     | 733                    | 73,9                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 1,73   | 135                     | 999                    | 100,8                   |    |    |    |    |         |     |     |     |     |
| 2      | 10       | 10,3 | 18,5  | 25   | 180M-4     | 1470                    | 1,41   | 136                     | 1224                   | 123,5                   |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                    | 1,19   | 136                     | 1455                   | 146,8                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 5,83   | 141                     | 351                    | 35,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 4,28   | 141                     | 479                    | 48,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 3,49   | 141                     | 587                    | 59,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 2,94   | 142                     | 697                    | 70,4                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 2,94   | 142                     | 697                    | 70,3                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 2,15   | 142                     | 950                    | 95,8                    |    |    |    |    |         |     |     |     |     |
| 2      | 9        | 9,3  | 18,5  | 25   | 180M-4     | 1470                    | 1,76   | 143                     | 1163                   | 117,4                   |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                    | 1,48   | 143                     | 1383                   | 139,6                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 5,5   | 7,5  | 132S-4     | 1450                    | 6,04   | 155                     | 318                    | 32,1                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 4,43   | 155                     | 434                    | 43,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 3,61   | 155                     | 532                    | 53,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                    | 3,04   | 157                     | 632                    | 63,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                    | 3,04   | 157                     | 631                    | 63,7                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                    | 2,23   | 157                     | 860                    | 86,8                    |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 18,5  | 25   | 180M-4     | 1470                    | 1,82   | 158                     | 1054                   | 106,3                   |    |    |    |    |         |     |     |     |     |
| 3      |          |      | 22    | 30   | 180L-4     | 1470                    | 1,53   | 158                     | 1253                   | 126,4                   |    |    |    |    |         |     |     |     |     |

| 50     | ratio i: |      | input |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [kgm] |    |    |    |    |         |     |     |     |     |  |
| 2      | 8        | 8,0  | 5,5   | 7,5  | 132S-4     | 1450                 | 6,24   | 181                  | 279                 | 28,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 4,57   | 181                  | 381                 | 38,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 3,73   | 181                  | 467                 | 47,1                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 3,14   | 182                  | 555                 | 56,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                 | 3,14   | 182                  | 543                 | 54,8                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                 | 2,30   | 182                  | 741                 | 74,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 1,88   | 183                  | 907                 | 91,5                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                 | 1,58   | 183                  | 1079                | 108,8                |    |    |    |    |         |     |     |     |     |  |
| 2      | 7        | 6,8  | 5,5   | 7,5  | 132S-4     | 1450                 | 5,39   | 214                  | 236                 | 23,8                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 3,95   | 214                  | 321                 | 32,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 3,22   | 214                  | 394                 | 39,8                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 2,71   | 215                  | 468                 | 47,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                 | 2,71   | 215                  | 458                 | 46,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                 | 1,99   | 215                  | 625                 | 63,1                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 1,63   | 217                  | 766                 | 77,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                 | 1,37   | 217                  | 910                 | 91,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      | 7        | 7,4  | 7,5   | 10   | 132M-4     | 1450                 | 5,86   | 195                  | 346                 | 34,9                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 4,77   | 195                  | 424                 | 42,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 132MC-4    | 1460                 | 4,02   | 196                  | 504                 | 50,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11    | 15   | 160M-4     | 1460                 | 4,02   | 196                  | 503                 | 50,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 15    | 20   | 160L-4     | 1460                 | 2,95   | 196                  | 686                 | 69,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 2,41   | 198                  | 841                 | 84,8                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 22    | 30   | 180L-4     | 1470                 | 2,02   | 198                  | 1000                | 100,9                |    |    |    |    |         |     |     |     |     |  |
| 2      | 6,5      | 6,5  | 7,5   | 10   | 132M-4     | 1450                 | 5,62   | 224                  | 308                 | 31,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 4,58   | 224                  | 377                 | 38,1                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 3,86   | 225                  | 448                 | 45,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                 | 3,86   | 225                  | 439                 | 44,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                 | 2,83   | 225                  | 598                 | 60,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 2,31   | 227                  | 733                 | 73,9                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                 | 1,94   | 227                  | 871                 | 87,9                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 6        | 6,1  | 7,5   | 10   | 132M-4     | 1450                 | 4,28   | 240                  | 287                 | 29,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 3,49   | 240                  | 352                 | 35,5                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 2,94   | 241                  | 418                 | 42,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                 | 2,94   | 241                  | 409                 | 41,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                 | 2,15   | 241                  | 558                 | 56,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 1,76   | 243                  | 684                 | 69,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                 | 1,48   | 243                  | 813                 | 82,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 5        | 5,0  | 18,5  | 25   | 160L-2     | 2950                 | 4,13   | 587                  | 289                 | 29,1                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180M-2     | 2950                 | 3,47   | 587                  | 344                 | 34,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 5,57   | 289                  | 238                 | 24,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 4,54   | 289                  | 292                 | 29,5                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 3,82   | 291                  | 347                 | 35,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                 | 3,82   | 291                  | 340                 | 34,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                 | 2,80   | 291                  | 463                 | 46,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 2,29   | 293                  | 567                 | 57,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      | 4,5      | 4,7  | 22    | 30   | 180L-4     | 1470                 | 1,92   | 293                  | 675                 | 68,1                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 160L-2     | 2950                 | 5,70   | 629                  | 270                 | 27,2                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180M-2     | 2950                 | 4,80   | 629                  | 321                 | 32,3                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                 | 7,68   | 309                  | 222                 | 22,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                 | 6,26   | 309                  | 273                 | 27,5                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                 | 5,28   | 312                  | 324                 | 32,7                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                 | 5,28   | 312                  | 317                 | 32,0                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                 | 3,87   | 312                  | 432                 | 43,6                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                 | 3,16   | 314                  | 530                 | 53,4                 |    |    |    |    |         |     |     |     |     |  |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                 | 2,66   | 314                  | 630                 | 63,5                 |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 50     | ratio i: |      | input |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----------|------|-------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated    | real | kW    | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |    |    |    |    |         |     |     |     |     |
| 2      | 4        | 4,1  | 18,5  | 25   | 160L-2     | 2950                    | 5,13   | 727                     | 233                    | 23,5                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180M-2     | 2950                    | 4,31   | 727                     | 277                    | 28,0                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 7,5   | 10   | 132M-4     | 1450                    | 6,91   | 357                     | 192                    | 19,4                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 5,63   | 357                     | 236                    | 23,8                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 4,75   | 360                     | 280                    | 28,3                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 4,75   | 360                     | 274                    | 27,7                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 3,48   | 360                     | 374                    | 37,7                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                    | 2,84   | 362                     | 458                    | 46,2                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                    | 2,39   | 362                     | 545                    | 55,0                    |    |    |    |    |         |     |     |     |     |
| 2      | 3        | 2,9  | 18,5  | 25   | 160L-2     | 2950                    | 6,81   | 1006                    | 169                    | 17,0                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180M-2     | 2950                    | 5,73   | 1006                    | 201                    | 20,2                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 9,2   | 12,5 | 132MB-4    | 1450                    | 7,48   | 495                     | 171                    | 17,2                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 132MC-4    | 1460                    | 6,30   | 498                     | 203                    | 20,4                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 11    | 15   | 160M-4     | 1460                    | 6,30   | 498                     | 198                    | 20,0                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 15    | 20   | 160L-4     | 1460                    | 4,62   | 498                     | 270                    | 27,3                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 18,5  | 25   | 180M-4     | 1470                    | 3,77   | 501                     | 331                    | 33,4                    |    |    |    |    |         |     |     |     |     |
| 2      |          |      | 22    | 30   | 180L-4     | 1470                    | 3,17   | 501                     | 394                    | 39,7                    |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 60     | ratio i: |       | input |         |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|-------|-------|---------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real  | kW    | Hp      | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |  |
| 3      | 127      | 126,7 | 1,1   | 1,5     | 100LB-8    | 702                  | 2,37   | 5,5                  | 1785                | 180,1                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 112M-8     | 710                  | 1,76   | 5,6                  | 2408                | 242,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 132S-8     | 710                  | 1,20   | 5,6                  | 3531                | 356,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 100L-6     | 944                  | 2,14   | 7,5                  | 1810                | 182,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 112M-6     | 950                  | 1,47   | 7,5                  | 2637                | 266,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132S-6     | 970                  | 1,10   | 7,7                  | 3520                | 355,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 100LA-4    | 1420                 | 2,00   | 11                   | 1764                | 178,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 100LB-4    | 1420                 | 1,46   | 11                   | 2405                | 242,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 4     | 5,5     | 112M-4     | 1420                 | 1,10   | 11                   | 3207                | 323,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 5     | 6,8   | 112MB-4 | 1450       | 0,90                 | 11     | 3928                 | 396,4               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      | 119      | 118,8 | 1,1   | 1,5     | 100LB-8    | 702                  | 2,49   | 5,9                  | 1673                | 168,8                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 112M-8     | 710                  | 1,85   | 6,0                  | 2255                | 227,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 132S-8     | 710                  | 1,26   | 6,0                  | 3307                | 333,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 100L-6     | 944                  | 2,26   | 8,0                  | 1696                | 171,1                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 112M-6     | 950                  | 1,55   | 8,0                  | 2472                | 249,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132S-6     | 970                  | 1,16   | 8,2                  | 3305                | 333,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 100LA-4    | 1420                 | 2,10   | 12                   | 1655                | 167,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 100LB-4    | 1420                 | 1,54   | 12                   | 2256                | 227,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 4     | 5,5     | 112M-4     | 1420                 | 1,16   | 12                   | 3009                | 303,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 5     | 6,8   | 112MB-4 | 1450       | 0,94                 | 12     | 3684                 | 371,7               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      | 115      | 115,4 | 1,1   | 1,5     | 100LB-8    | 702                  | 2,77   | 6,1                  | 1626                | 164,1                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 112M-8     | 710                  | 2,06   | 6,2                  | 2192                | 221,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 132S-8     | 710                  | 1,40   | 6,2                  | 3215                | 324,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132M-8     | 720                  | 1,04   | 6,2                  | 4321                | 436,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 100L-6     | 944                  | 2,51   | 8,2                  | 1648                | 166,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 112M-6     | 950                  | 1,72   | 8,2                  | 2403                | 242,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132S-6     | 970                  | 1,29   | 8,4                  | 3210                | 323,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 100LA-4    | 1420                 | 2,34   | 12                   | 1608                | 162,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 100LB-4    | 1420                 | 1,71   | 12                   | 2192                | 221,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 4     | 5,5   | 112M-4  | 1420       | 1,29                 | 12     | 2923                 | 294,9               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 5     | 6,8   | 112MB-4 | 1450       | 1,05                 | 13     | 3578                 | 361,0               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      | 112      | 111,7 | 1,1   | 1,5     | 100LB-8    | 702                  | 2,62   | 6,3                  | 1574                | 158,8                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 112M-8     | 710                  | 1,94   | 6,4                  | 2120                | 213,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 132S-8     | 710                  | 1,33   | 6,4                  | 3109                | 313,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132M-8     | 720                  | 0,99   | 6,4                  | 4187                | 422,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 100L-6     | 944                  | 2,37   | 8,5                  | 1596                | 161,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 112M-6     | 950                  | 1,63   | 8,5                  | 2326                | 234,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132S-6     | 970                  | 1,22   | 8,7                  | 3107                | 313,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 100LA-4    | 1420                 | 2,21   | 13                   | 1556                | 157,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 100LB-4    | 1420                 | 1,62   | 13                   | 2122                | 214,1                |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 4     | 5,5   | 112M-4  | 1420       | 1,21                 | 13     | 2829                 | 285,4               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 5     | 6,8   | 112MB-4 | 1450       | 0,99                 | 13     | 3462                 | 349,3               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      | 109      | 108,7 | 1,1   | 1,5     | 100LB-8    | 702                  | 2,68   | 6,5                  | 1531                | 154,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 112M-8     | 710                  | 1,99   | 6,5                  | 2065                | 208,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 132S-8     | 710                  | 1,35   | 6,5                  | 3028                | 305,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132M-8     | 720                  | 1,01   | 6,6                  | 4073                | 411,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 1,5   | 2       | 100L-6     | 944                  | 2,42   | 8,7                  | 1553                | 156,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 112M-6     | 950                  | 1,66   | 8,7                  | 2263                | 228,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 132S-6     | 970                  | 1,24   | 8,9                  | 3023                | 305,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 2,2   | 3       | 100LA-4    | 1420                 | 2,26   | 13                   | 1514                | 152,8                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |       | 3     | 4       | 100LB-4    | 1420                 | 1,66   | 13                   | 2065                | 208,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 4     | 5,5   | 112M-4  | 1420       | 1,24                 | 13     | 2753                 | 277,8               |                      |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 5     | 6,8   | 112MB-4 | 1450       | 1,01                 | 13     | 3369                 | 339,9               |                      |    |    |    |    |         |     |     |     |     |  |



input connection **B5** IEC 72-1

| 60     | ratio i: |      | input  |      |            |                         | output |                         |                        |                         | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|--------|------|------------|-------------------------|--------|-------------------------|------------------------|-------------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW     | Hp   | motor type | n <sub>1</sub><br>[rpm] | fs     | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[KgM] |    |    |    |    |         |     |     |     |     |  |
| 3      | 98       | 97,6 | 1,1    | 1,5  | 100LB-8    | 702                     | 2,92   | 7,2                     | 1373                   | 138,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 112M-8     | 710                     | 2,17   | 7,3                     | 1852                   | 186,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 132S-8     | 710                     | 1,48   | 7,3                     | 2716                   | 274,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132M-8     | 720                     | 1,10   | 7,4                     | 3654                   | 368,6                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 100L-6     | 944                     | 2,64   | 9,7                     | 1393                   | 140,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 112M-6     | 950                     | 1,81   | 9,7                     | 2030                   | 204,8                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132S-6     | 970                     | 1,36   | 9,9                     | 2713                   | 273,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 132MA-6    | 970                     | 1,02   | 9,9                     | 3617                   | 364,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 100LA-4    | 1420                    | 2,46   | 15                      | 1359                   | 137,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 100LB-4    | 1420                    | 1,81   | 15                      | 1853                   | 187,0                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 112M-4     | 1420                    | 1,35   | 15                      | 2471                   | 249,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5      | 6,8  | 112MB-4    | 1450                    | 1,11   | 15                      | 3024                   | 305,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 5,5      | 8    | 132S-4 | 1450 | 1,01       | 15                      | 3327   | 335,6                   |                        |                         |    |    |    |    |         |     |     |     |     |  |
| 3      | 96       | 95,9 | 1,1    | 1,5  | 100LB-8    | 702                     | 2,96   | 7,3                     | 1351                   | 136,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 112M-8     | 710                     | 2,20   | 7,4                     | 1820                   | 183,6                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 132S-8     | 710                     | 1,50   | 7,4                     | 2669                   | 269,2                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132M-8     | 720                     | 1,11   | 7,5                     | 3591                   | 362,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 100L-6     | 944                     | 2,68   | 9,9                     | 1369                   | 138,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 112M-6     | 950                     | 1,84   | 9,9                     | 1995                   | 201,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132S-6     | 970                     | 1,38   | 10,1                    | 2665                   | 268,8                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 132MA-6    | 970                     | 1,03   | 10,1                    | 3553                   | 358,4                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 100LA-4    | 1420                    | 2,50   | 15                      | 1335                   | 134,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 100LB-4    | 1420                    | 1,83   | 15                      | 1821                   | 183,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 112M-4     | 1420                    | 1,37   | 15                      | 2428                   | 244,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5      | 6,8  | 112MB-4    | 1450                    | 1,12   | 15                      | 2972                   | 299,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 5,5      | 8    | 132S-4 | 1450 | 1,02       | 15                      | 3270   | 329,9                   |                        |                         |    |    |    |    |         |     |     |     |     |  |
| 3      | 95       | 94,5 | 1,1    | 1,5  | 100LB-8    | 702                     | 3,00   | 7,4                     | 1331                   | 134,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 112M-8     | 710                     | 2,22   | 7,5                     | 1795                   | 181,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 132S-8     | 710                     | 1,52   | 7,5                     | 2633                   | 265,7                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132M-8     | 720                     | 1,13   | 7,6                     | 3539                   | 357,0                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 100L-6     | 944                     | 2,71   | 10,0                    | 1351                   | 136,3                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 112M-6     | 950                     | 1,86   | 10,1                    | 1968                   | 198,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132S-6     | 970                     | 1,39   | 10,3                    | 2628                   | 265,2                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 132MA-6    | 970                     | 1,04   | 10,3                    | 3504                   | 353,6                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 100LA-4    | 1420                    | 2,53   | 15                      | 1317                   | 132,8                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 100LB-4    | 1420                    | 1,85   | 15                      | 1795                   | 181,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 112M-4     | 1420                    | 1,39   | 15                      | 2394                   | 241,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5      | 6,8  | 112MB-4    | 1450                    | 1,13   | 15                      | 2930                   | 295,6                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 5,5      | 8    | 132S-4 | 1450 | 1,03       | 15                      | 3223   | 325,1                   |                        |                         |    |    |    |    |         |     |     |     |     |  |
| 3      | 93       | 92,9 | 1,1    | 1,5  | 100LB-8    | 702                     | 3,30   | 7,6                     | 1308                   | 132,0                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 112M-8     | 710                     | 2,45   | 7,6                     | 1765                   | 178,0                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 132S-8     | 710                     | 1,67   | 7,6                     | 2588                   | 261,1                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132M-8     | 720                     | 1,24   | 7,8                     | 3479                   | 351,0                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5    | 2    | 100L-6     | 944                     | 2,99   | 10,2                    | 1327                   | 133,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 112M-6     | 950                     | 2,05   | 10,2                    | 1933                   | 195,0                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 132S-6     | 970                     | 1,53   | 10,4                    | 2583                   | 260,6                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 132MA-6    | 970                     | 1,15   | 10,4                    | 3444                   | 347,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2    | 3    | 100LA-4    | 1420                    | 2,78   | 15                      | 1293                   | 130,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3      | 4    | 100LB-4    | 1420                    | 2,04   | 15                      | 1764                   | 177,9                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4      | 5,5  | 112M-4     | 1420                    | 1,53   | 15                      | 2351                   | 237,2                   |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5      | 6,8  | 112MB-4    | 1450                    | 1,25   | 16                      | 2879                   | 290,5                   |    |    |    |    |         |     |     |     |     |  |
| 3      | 5,5      | 8    | 132S-4 | 1450 | 1,14       | 16                      | 3167   | 319,5                   |                        |                         |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 60     |    | ratio i: |      | input |     |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|----|----------|------|-------|-----|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|
| stages |    | rated    | real | kW    | Hp  | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |
| 3      | 92 | 92,2     |      | 1,1   | 1,5 | 100LB-8    | 702                  | 3,32   | 7,6                  | 1299                | 131,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 112M-8     | 710                  | 2,46   | 7,7                  | 1751                | 176,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 132S-8     | 710                  | 1,68   | 7,7                  | 2568                | 259,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132M-8     | 720                  | 1,25   | 7,8                  | 3453                | 348,3                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 100L-6     | 944                  | 3,00   | 10,2                 | 1318                | 133,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 112M-6     | 950                  | 2,06   | 10,3                 | 1920                | 193,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132S-6     | 970                  | 1,54   | 10,5                 | 2563                | 258,6                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 132MA-6    | 970                  | 1,16   | 10,5                 | 3418                | 344,8                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,80   | 15                   | 1285                | 129,6                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,05   | 15                   | 1752                | 176,8                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,54   | 15                   | 2336                | 235,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,26   | 16                   | 2859                | 288,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 8   | 132S-4     | 1450                 | 1,14   | 16                   | 3145                | 317,3                |    |    |    |    |         |     |     |     |     |
| 3      | 89 | 88,9     |      | 1,1   | 1,5 | 100LB-8    | 702                  | 3,42   | 7,9                  | 1252                | 126,3                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 112M-8     | 710                  | 2,54   | 8,0                  | 1687                | 170,2                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 132S-8     | 710                  | 1,73   | 8,0                  | 2475                | 249,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132M-8     | 720                  | 1,29   | 8,1                  | 3329                | 335,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 100L-6     | 944                  | 3,09   | 10,6                 | 1270                | 128,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 112M-6     | 950                  | 2,12   | 10,7                 | 1850                | 186,6                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132S-6     | 970                  | 1,59   | 10,9                 | 2472                | 249,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 132MA-6    | 970                  | 1,19   | 10,9                 | 3295                | 332,5                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,88   | 16                   | 1237                | 124,8                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,12   | 16                   | 1687                | 170,2                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,59   | 16                   | 2250                | 227,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,30   | 16                   | 2755                | 278,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 8   | 132S-4     | 1450                 | 1,18   | 16                   | 3031                | 305,8                |    |    |    |    |         |     |     |     |     |
| 3      | 87 | 86,5     |      | 1,1   | 1,5 | 100LB-8    | 702                  | 3,50   | 8,1                  | 1218                | 122,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 112M-8     | 710                  | 2,59   | 8,2                  | 1642                | 165,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 132S-8     | 710                  | 1,77   | 8,2                  | 2409                | 243,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132M-8     | 720                  | 1,32   | 8,3                  | 3241                | 327,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 100L-6     | 944                  | 3,16   | 10,9                 | 1236                | 124,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 112M-6     | 950                  | 2,17   | 11,0                 | 1801                | 181,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132S-6     | 970                  | 1,62   | 11,2                 | 2405                | 242,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 132MA-6    | 970                  | 1,22   | 11,2                 | 3207                | 323,6                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,95   | 16                   | 1204                | 121,5                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,16   | 16                   | 1642                | 165,7                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,62   | 16                   | 2190                | 220,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,32   | 17                   | 2681                | 270,5                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 8   | 132S-4     | 1450                 | 1,20   | 17                   | 2950                | 297,6                |    |    |    |    |         |     |     |     |     |
| 3      | 86 | 86,1     |      | 1,1   | 1,5 | 100LB-8    | 702                  | 3,51   | 8,2                  | 1213                | 122,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 112M-8     | 710                  | 2,60   | 8,2                  | 1636                | 165,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 132S-8     | 710                  | 1,77   | 8,2                  | 2400                | 242,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132M-8     | 720                  | 1,32   | 8,4                  | 3225                | 325,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 1,5   | 2   | 100L-6     | 944                  | 3,17   | 11,0                 | 1230                | 124,1                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 112M-6     | 950                  | 2,18   | 11,0                 | 1793                | 180,9                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 132S-6     | 970                  | 1,63   | 11,3                 | 2395                | 241,6                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 132MA-6    | 970                  | 1,22   | 11,3                 | 3193                | 322,2                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 2,2   | 3   | 100LA-4    | 1420                 | 2,96   | 16                   | 1199                | 121,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 3     | 4   | 100LB-4    | 1420                 | 2,17   | 16                   | 1635                | 165,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 4     | 5,5 | 112M-4     | 1420                 | 1,63   | 16                   | 2180                | 220,0                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5     | 6,8 | 112MB-4    | 1450                 | 1,33   | 17                   | 2670                | 269,4                |    |    |    |    |         |     |     |     |     |
| 3      |    |          |      | 5,5   | 8   | 132S-4     | 1450                 | 1,21   | 17                   | 2937                | 296,4                |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 60     | ratio i: |      | input |        |            |                         |      | output                  |                        |                         |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|-------|--------|------------|-------------------------|------|-------------------------|------------------------|-------------------------|--|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW    | Hp     | motor type | n <sub>1</sub><br>[rpm] | fs   | n <sub>2</sub><br>[rpm] | M <sub>2</sub><br>[Nm] | M <sub>2</sub><br>[Kgm] |  |    |    |    |    |         |     |     |     |     |  |
| 3      | 84       | 83,7 | 1,1   | 1,5    | 100LB-8    | 702                     | 3,30 | 8,4                     | 1180                   | 119,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2      | 112M-8     | 710                     | 2,45 | 8,5                     | 1590                   | 160,4                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 132S-8     | 710                     | 1,67 | 8,5                     | 2332                   | 235,3                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 132M-8     | 720                     | 1,24 | 8,6                     | 3135                   | 316,3                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 100LA-4    | 1420                    | 2,78 | 17                      | 1166                   | 117,6                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 100LB-4    | 1420                    | 2,04 | 17                      | 1590                   | 160,4                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5    | 112M-4     | 1420                    | 1,53 | 17                      | 2120                   | 213,9                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8    | 112MB-4    | 1450                    | 1,25 | 17                      | 2595                   | 261,8                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 8      | 132S-4     | 1450                    | 1,14 | 17                      | 2854                   | 288,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      | 83       | 83,4 | 1,1   | 1,5    | 100LB-8    | 702                     | 3,31 | 8,4                     | 1174                   | 118,5                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2      | 112M-8     | 710                     | 2,46 | 8,5                     | 1582                   | 159,7                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 132S-8     | 710                     | 1,68 | 8,5                     | 2321                   | 234,2                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 132M-8     | 720                     | 1,25 | 8,6                     | 3121                   | 314,9                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 100LA-4    | 1420                    | 2,79 | 17                      | 1161                   | 117,2                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 100LB-4    | 1420                    | 2,05 | 17                      | 1583                   | 159,8                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5    | 112M-4     | 1420                    | 1,54 | 17                      | 2111                   | 213,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8    | 112MB-4    | 1450                    | 1,25 | 17                      | 2584                   | 260,7                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 8      | 132S-4     | 1450                    | 1,14 | 17                      | 2843                   | 286,8                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      | 82       | 81,5 | 1,1   | 1,5    | 100LB-8    | 702                     | 3,37 | 8,6                     | 1148                   | 115,9                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2      | 112M-8     | 710                     | 2,50 | 8,7                     | 1548                   | 156,2                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 132S-8     | 710                     | 1,71 | 8,7                     | 2270                   | 229,1                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 132M-8     | 720                     | 1,27 | 8,8                     | 3054                   | 308,1                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 100LA-4    | 1420                    | 2,84 | 17                      | 1135                   | 114,5                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 100LB-4    | 1420                    | 2,09 | 17                      | 1548                   | 156,2                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5    | 112M-4     | 1420                    | 1,56 | 17                      | 2064                   | 208,2                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8    | 112MB-4    | 1450                    | 1,28 | 18                      | 2526                   | 254,9                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 8      | 132S-4     | 1450                    | 1,16 | 18                      | 2779                   | 280,4                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      | 81       | 80,8 | 1,1   | 1,5    | 100LB-8    | 702                     | 3,70 | 8,7                     | 1138                   | 114,8                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2      | 112M-8     | 710                     | 2,74 | 8,8                     | 1534                   | 154,8                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 132S-8     | 710                     | 1,87 | 8,8                     | 2250                   | 227,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 132M-8     | 720                     | 1,39 | 8,9                     | 3026                   | 305,3                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 100LA-4    | 1420                    | 3,12 | 18                      | 1125                   | 113,5                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 100LB-4    | 1420                    | 2,28 | 18                      | 1534                   | 154,8                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5    | 112M-4     | 1420                    | 1,71 | 18                      | 2045                   | 206,3                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8    | 112MB-4    | 1450                    | 1,40 | 18                      | 2504                   | 252,6                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 8      | 132S-4     | 1450                    | 1,27 | 18                      | 2754                   | 277,9                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      | 77       | 76,5 | 1,1   | 1,5    | 100LB-8    | 702                     | 3,86 | 9,2                     | 1077                   | 108,7                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2      | 112M-8     | 710                     | 2,86 | 9,3                     | 1453                   | 146,6                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 132S-8     | 710                     | 1,95 | 9,3                     | 2131                   | 215,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 132M-8     | 720                     | 1,45 | 9,4                     | 2866                   | 289,1                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 100LA-4    | 1420                    | 3,25 | 19                      | 1065                   | 107,5                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 100LB-4    | 1420                    | 2,39 | 19                      | 1453                   | 146,6                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5    | 112M-4     | 1420                    | 1,79 | 19                      | 1937                   | 195,4                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8    | 112MB-4    | 1450                    | 1,46 | 19                      | 2372                   | 239,3                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 8      | 132S-4     | 1450                    | 1,33 | 19                      | 2609                   | 263,2                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 7,5  | 10    | 132M-4 | 1450       | 0,97                    | 19   | 3557                    | 358,9                  |                         |  |    |    |    |    |         |     |     |     |     |  |
| 3      | 76       | 76,0 | 1,1   | 1,5    | 100LB-8    | 702                     | 3,88 | 9,2                     | 1070                   | 108,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5   | 2      | 112M-8     | 710                     | 2,88 | 9,4                     | 1442                   | 145,5                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 132S-8     | 710                     | 1,96 | 9,4                     | 2115                   | 213,4                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 132M-8     | 720                     | 1,46 | 9,5                     | 2844                   | 287,0                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2   | 3      | 100LA-4    | 1420                    | 3,27 | 19                      | 1058                   | 106,7                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3     | 4      | 100LB-4    | 1420                    | 2,40 | 19                      | 1443                   | 145,6                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4     | 5,5    | 112M-4     | 1420                    | 1,80 | 19                      | 1924                   | 194,1                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5     | 6,8    | 112MB-4    | 1450                    | 1,47 | 19                      | 2354                   | 237,5                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5   | 8      | 132S-4     | 1450                    | 1,34 | 19                      | 2590                   | 261,3                   |  |    |    |    |    |         |     |     |     |     |  |
| 3      |          | 7,5  | 10    | 132M-4 | 1450       | 0,98                    | 19   | 3531                    | 356,3                  |                         |  |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

| 60     |       | ratio i: |     | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|-----|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW  | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 75    | 74,7     | 1,1 | 1,5   | 100LB-8    | 702                  | 4,03 | 9,4                  | 1052                | 106,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5 | 2     | 112M-8     | 710                  | 2,99 | 9,5                  | 1418                | 143,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 132S-8     | 710                  | 2,04 | 9,5                  | 2079                | 209,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 132M-8     | 720                  | 1,52 | 9,6                  | 2797                | 282,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,40 | 19                   | 1040                | 104,9                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,49 | 19                   | 1418                | 143,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,87 | 19                   | 1890                | 190,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,53 | 19                   | 2314                | 233,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 1,39 | 19                   | 2546                | 256,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,02 | 19                   | 3471                | 350,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,1 | 1,5   | 100LB-8    | 702                  | 3,99 | 9,6                  | 1034                | 104,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5 | 2     | 112M-8     | 710                  | 2,96 | 9,7                  | 1394                | 140,7                |  |    |    |    |    |         |     |     |     |     |
| 3      | 73    | 73,5     | 2,2 | 3     | 132S-8     | 710                  | 2,02 | 9,7                  | 2045                | 206,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 132M-8     | 720                  | 1,50 | 9,8                  | 2752                | 277,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,36 | 19                   | 1023                | 103,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,47 | 19                   | 1395                | 140,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,85 | 19                   | 1860                | 187,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,51 | 20                   | 2277                | 229,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 1,37 | 20                   | 2504                | 252,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,01 | 20                   | 3415                | 344,6                |  |    |    |    |    |         |     |     |     |     |
| 3      | 71    | 71,0     | 1,1 | 1,5   | 100LB-8    | 702                  | 4,11 | 9,9                  | 1001                | 101,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5 | 2     | 112M-8     | 710                  | 3,05 | 10,0                 | 1348                | 136,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 132S-8     | 710                  | 2,08 | 10,0                 | 1977                | 199,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 132M-8     | 720                  | 1,55 | 10,1                 | 2659                | 268,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,46 | 20                   | 989                 | 99,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,54 | 20                   | 1349                | 136,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 1,91 | 20                   | 1799                | 181,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,56 | 20                   | 2202                | 222,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 1,42 | 20                   | 2422                | 244,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,04 | 20                   | 3303                | 333,2                |  |    |    |    |    |         |     |     |     |     |
| 3      | 70    | 69,5     | 1,1 | 1,5   | 100LB-8    | 702                  | 4,54 | 10,1                 | 979                 | 98,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5 | 2     | 112M-8     | 710                  | 3,37 | 10,2                 | 1321                | 133,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 132S-8     | 710                  | 2,30 | 10,2                 | 1937                | 195,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 132M-8     | 720                  | 1,71 | 10,4                 | 2603                | 262,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,83 | 20                   | 968                 | 97,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,81 | 20                   | 1320                | 133,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,11 | 20                   | 1760                | 177,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,72 | 21                   | 2154                | 217,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 1,56 | 21                   | 2370                | 239,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,15 | 21                   | 3232                | 326,1                |  |    |    |    |    |         |     |     |     |     |
| 3      | 67    | 67,0     | 1,1 | 1,5   | 100LB-8    | 702                  | 4,34 | 10,5                 | 944                 | 95,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 1,5 | 2     | 112M-8     | 710                  | 3,22 | 10,6                 | 1273                | 128,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 132S-8     | 710                  | 2,20 | 10,6                 | 1867                | 188,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 132M-8     | 720                  | 1,63 | 10,7                 | 2511                | 253,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 3,66 | 21                   | 934                 | 94,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 2,68 | 21                   | 1273                | 128,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,01 | 21                   | 1698                | 171,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 1,64 | 22                   | 2078                | 209,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 1,49 | 22                   | 2286                | 230,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,10 | 22                   | 3117                | 314,4                |  |    |    |    |    |         |     |     |     |     |

input connection **B5** IEC 72-1

| 60     | ratio i: |      | input   |      |            |                      | output |                      |                     |                      | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |  |
|--------|----------|------|---------|------|------------|----------------------|--------|----------------------|---------------------|----------------------|----|----|----|----|---------|-----|-----|-----|-----|--|
| stages | rated    | real | kW      | Hp   | motor type | n <sub>1</sub> [rpm] | fs     | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |    |    |    |    |         |     |     |     |     |  |
| 3      | 66       | 65,8 | 1,1     | 1,5  | 100LB-8    | 702                  | 4,54   | 10,7                 | 928                 | 93,6                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5     | 2    | 112M-8     | 710                  | 3,37   | 10,8                 | 1250                | 126,1                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2     | 3    | 132S-8     | 710                  | 2,30   | 10,8                 | 1833                | 184,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 132M-8     | 720                  | 1,71   | 10,9                 | 2465                | 248,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2     | 3    | 100LA-4    | 1420                 | 3,83   | 22                   | 917                 | 92,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 100LB-4    | 1420                 | 2,81   | 22                   | 1250                | 126,1                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4       | 5,5  | 112M-4     | 1420                 | 2,11   | 22                   | 1667                | 168,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5       | 6,8  | 112MB-4    | 1450                 | 1,72   | 22                   | 2040                | 205,8                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5     | 8    | 132S-4     | 1450                 | 1,56   | 22                   | 2244                | 226,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5     | 10   | 132M-4     | 1450                 | 1,15   | 22                   | 3060                | 308,7                |    |    |    |    |         |     |     |     |     |  |
| 3      | 65       | 64,9 | 1,1     | 1,5  | 100LB-8    | 702                  | 5,07   | 10,8                 | 915                 | 92,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 1,5     | 2    | 112M-8     | 710                  | 3,76   | 10,9                 | 1232                | 124,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2     | 3    | 132S-8     | 710                  | 2,57   | 10,9                 | 1808                | 182,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 132M-8     | 720                  | 1,91   | 11,1                 | 2431                | 245,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 2,2     | 3    | 100LA-4    | 1420                 | 4,28   | 22                   | 904                 | 91,2                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 100LB-4    | 1420                 | 3,14   | 22                   | 1233                | 124,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4       | 5,5  | 112M-4     | 1420                 | 2,35   | 22                   | 1644                | 165,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5       | 6,8  | 112MB-4    | 1450                 | 1,92   | 22                   | 2012                | 203,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5     | 8    | 132S-4     | 1450                 | 1,75   | 22                   | 2213                | 223,3                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5     | 10   | 132M-4     | 1450                 | 1,28   | 22                   | 3018                | 304,5                |    |    |    |    |         |     |     |     |     |  |
| 3      | 9,2      | 12,5 | 132MB-4 | 1450 | 1,04       | 22                   | 3702   | 373,5                |                     |                      |    |    |    |    |         |     |     |     |     |  |
| 3      | 63       | 62,9 | 2,2     | 3    | 100LA-4    | 1420                 | 3,89   | 23                   | 875                 | 88,3                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 100LB-4    | 1420                 | 2,85   | 23                   | 1194                | 120,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4       | 5,5  | 112M-4     | 1420                 | 2,14   | 23                   | 1592                | 160,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5       | 6,8  | 112MB-4    | 1450                 | 1,75   | 23                   | 1948                | 196,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5     | 8    | 132S-4     | 1450                 | 1,59   | 23                   | 2143                | 216,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5     | 10   | 132M-4     | 1450                 | 1,16   | 23                   | 2922                | 294,8                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2     | 12,5 | 132MB-4    | 1450                 | 0,95   | 23                   | 3584                | 361,6                |    |    |    |    |         |     |     |     |     |  |
| 3      | 61       | 60,9 | 2,2     | 3    | 100LA-4    | 1420                 | 4,55   | 23                   | 848                 | 85,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 100LB-4    | 1420                 | 3,33   | 23                   | 1156                | 116,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4       | 5,5  | 112M-4     | 1420                 | 2,50   | 23                   | 1541                | 155,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5       | 6,8  | 112MB-4    | 1450                 | 2,04   | 24                   | 1887                | 190,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5     | 8    | 132S-4     | 1450                 | 1,86   | 24                   | 2075                | 209,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5     | 10   | 132M-4     | 1450                 | 1,36   | 24                   | 2830                | 285,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2     | 12,5 | 132MB-4    | 1450                 | 1,11   | 24                   | 3472                | 350,3                |    |    |    |    |         |     |     |     |     |  |
| 3      | 59       | 58,7 | 2,2     | 3    | 100LA-4    | 1420                 | 4,15   | 24                   | 817                 | 82,5                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 100LB-4    | 1420                 | 3,04   | 24                   | 1115                | 112,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4       | 5,5  | 112M-4     | 1420                 | 2,28   | 24                   | 1486                | 150,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5       | 6,8  | 112MB-4    | 1450                 | 1,86   | 25                   | 1820                | 183,6                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5     | 8    | 132S-4     | 1450                 | 1,69   | 25                   | 2001                | 201,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5     | 10   | 132M-4     | 1450                 | 1,24   | 25                   | 2729                | 275,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2     | 12,5 | 132MB-4    | 1450                 | 1,01   | 25                   | 3348                | 337,8                |    |    |    |    |         |     |     |     |     |  |
| 3      | 57       | 57,2 | 2,2     | 3    | 100LA-4    | 1420                 | 4,82   | 25                   | 797                 | 80,4                 |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 3       | 4    | 100LB-4    | 1420                 | 3,53   | 25                   | 1087                | 109,7                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 4       | 5,5  | 112M-4     | 1420                 | 2,65   | 25                   | 1449                | 146,2                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5       | 6,8  | 112MB-4    | 1450                 | 2,17   | 25                   | 1774                | 179,0                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 5,5     | 8    | 132S-4     | 1450                 | 1,97   | 25                   | 1952                | 196,9                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 7,5     | 10   | 132M-4     | 1450                 | 1,44   | 25                   | 2661                | 268,5                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 9,2     | 12,5 | 132MB-4    | 1450                 | 1,18   | 25                   | 3265                | 329,4                |    |    |    |    |         |     |     |     |     |  |
| 3      |          |      | 11      | 15   | 132MC-4    | 1460                 | 0,99   | 26                   | 3876                | 391,0                |    |    |    |    |         |     |     |     |     |  |
| 3      | 11       | 15   | 160M-4  | 1460 | 0,99       | 26                   | 3876   | 391,0                |                     |                      |    |    |    |    |         |     |     |     |     |  |

# PERFORMANCE TABLE



input connection **B5** IEC 72-1

input connection **B5** IEC 72-1

| 60     |       | ratio i: |     | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|-----|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW  | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 54    | 53,5     | 2,2 | 3     | 100LA-4    | 1420                 | 4,91 | 27                   | 745                 | 75,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 3,60 | 27                   | 1016                | 102,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,70 | 27                   | 1355                | 136,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,20 | 27                   | 1659                | 167,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,00 | 27                   | 1825                | 184,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,47 | 27                   | 2488                | 251,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,20 | 27                   | 3053                | 308,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,01 | 27                   | 3626                | 365,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,01 | 27                   | 3626                | 365,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 4,68 | 28                   | 719                 | 72,5                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 52    | 51,6     | 3   | 4     | 100LB-4    | 1420                 | 3,43 | 28                   | 980                 | 98,9                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,57 | 28                   | 1307                | 131,9                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,10 | 28                   | 1600                | 161,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 1,91 | 28                   | 1760                | 177,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,40 | 28                   | 2400                | 242,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,14 | 28                   | 2944                | 297,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 0,96 | 28                   | 3496                | 352,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 0,96 | 28                   | 3496                | 352,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 5,64 | 28                   | 703                 | 71,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 4,14 | 28                   | 959                 | 96,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 51    | 50,5     | 4   | 5,5   | 112M-4     | 1420                 | 3,10 | 28                   | 1279                | 129,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,54 | 29                   | 1566                | 158,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,31 | 29                   | 1723                | 173,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,69 | 29                   | 2349                | 237,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,38 | 29                   | 2881                | 290,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,16 | 29                   | 3421                | 345,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,16 | 29                   | 3421                | 345,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 5,48 | 28                   | 696                 | 70,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 4,02 | 28                   | 949                 | 95,8                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 3,02 | 28                   | 1266                | 127,7                |  |    |    |    |    |         |     |     |     |     |
| 3      | 50    | 50,0     | 5   | 6,8   | 112MB-4    | 1450                 | 2,46 | 29                   | 1549                | 156,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,24 | 29                   | 1704                | 171,9                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,64 | 29                   | 2324                | 234,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,34 | 29                   | 2851                | 287,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,13 | 29                   | 3385                | 341,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,13 | 29                   | 3385                | 341,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 5,22 | 30                   | 662                 | 66,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 3,83 | 30                   | 902                 | 91,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 2,87 | 30                   | 1203                | 121,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,35 | 31                   | 1473                | 148,6                |  |    |    |    |    |         |     |     |     |     |
| 3      | 48    | 47,5     | 5,5 | 8     | 132S-4     | 1450                 | 2,13 | 31                   | 1620                | 163,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,56 | 31                   | 2209                | 222,9                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,28 | 31                   | 2709                | 273,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,07 | 31                   | 3217                | 324,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,07 | 31                   | 3217                | 324,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 5,66 | 31                   | 642                 | 64,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 4,15 | 31                   | 875                 | 88,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 3,11 | 31                   | 1167                | 117,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,54 | 31                   | 1428                | 144,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,31 | 31                   | 1571                | 158,5                |  |    |    |    |    |         |     |     |     |     |
| 3      | 46    | 46,1     | 7,5 | 10    | 132M-4     | 1450                 | 1,70 | 31                   | 2142                | 216,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,38 | 31                   | 2628                | 265,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,16 | 32                   | 3120                | 314,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,16 | 32                   | 3120                | 314,8                |  |    |    |    |    |         |     |     |     |     |

| 60     |       | ratio i: |     | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|-----|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW  | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 45    | 44,5     | 2,2 | 3     | 100LA-4    | 1420                 | 6,42 | 32                   | 620                 | 62,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 4,71 | 32                   | 846                 | 85,3                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 3,53 | 32                   | 1128                | 113,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,89 | 33                   | 1381                | 139,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,62 | 33                   | 1519                | 153,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,92 | 33                   | 2071                | 209,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,57 | 33                   | 2540                | 256,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,32 | 33                   | 3017                | 304,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,32 | 33                   | 3017                | 304,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 6,51 | 34                   | 582                 | 58,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 42    | 41,8     | 3   | 4     | 100LB-4    | 1420                 | 4,77 | 34                   | 793                 | 80,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 4   | 5,5   | 112M-4     | 1420                 | 3,58 | 34                   | 1057                | 106,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,92 | 35                   | 1294                | 130,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,66 | 35                   | 1424                | 143,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,95 | 35                   | 1942                | 195,9                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,59 | 35                   | 2382                | 240,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,34 | 35                   | 2828                | 285,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,34 | 35                   | 2828                | 285,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 6,58 | 34                   | 575                 | 58,0                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 3   | 4     | 100LB-4    | 1420                 | 4,82 | 34                   | 785                 | 79,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      | 41    | 41,3     | 4   | 5,5   | 112M-4     | 1420                 | 3,62 | 34                   | 1046                | 105,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5   | 6,8   | 112MB-4    | 1450                 | 2,95 | 35                   | 1280                | 129,2                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 5,5 | 8     | 132S-4     | 1450                 | 2,69 | 35                   | 1408                | 142,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 7,5 | 10    | 132M-4     | 1450                 | 1,97 | 35                   | 1921                | 193,8                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 9,2 | 12,5  | 132MB-4    | 1450                 | 1,61 | 35                   | 2356                | 237,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 132MC-4    | 1460                 | 1,35 | 35                   | 2798                | 282,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 11  | 15    | 160M-4     | 1460                 | 1,35 | 35                   | 2798                | 282,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 15  | 20    | 160L-4     | 1460                 | 0,99 | 35                   | 3815                | 384,9                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 2,2 | 3     | 100LA-4    | 1420                 | 7,30 | 37                   | 542                 |                      |  |    |    |    |    |         |     |     |     |     |



input connection **B5** IEC 72-1

[illegible]

# PERFORMANCE TABLE

input connection **B5** IEC 72-1

| 60     |       | ratio i: |      | input |            |                      |      | output               |                     |                      |  | 63 | 71 | 80 | 90 | 100/112 | 132 | 160 | 180 | 200 |
|--------|-------|----------|------|-------|------------|----------------------|------|----------------------|---------------------|----------------------|--|----|----|----|----|---------|-----|-----|-----|-----|
| stages | rated | real     | kW   | Hp    | motor type | n <sub>1</sub> [rpm] | fs   | n <sub>2</sub> [rpm] | M <sub>2</sub> [Nm] | M <sub>2</sub> [Kgm] |  |    |    |    |    |         |     |     |     |     |
| 3      | 12    | 12,4     | 11   | 15    | 160M-4     | 1460                 | 4,30 | 118                  | 836                 | 84,4                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 15   | 20    | 160L-4     | 1460                 | 3,16 | 118                  | 1141                | 115,1                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 2,58 | 119                  | 1397                | 141,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,17 | 119                  | 1662                | 167,6                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 30   | 40    | 200L-4     | 1480                 | 1,60 | 120                  | 2250                | 227,1                |  |    |    |    |    |         |     |     |     |     |
| 3      | 11    | 11,3     | 11   | 15    | 160M-4     | 1460                 | 4,01 | 129                  | 766                 | 77,2                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 15   | 20    | 160L-4     | 1460                 | 2,94 | 129                  | 1044                | 105,3                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 2,40 | 130                  | 1279                | 129,0                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,02 | 130                  | 1521                | 153,4                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 30   | 40    | 200L-4     | 1480                 | 1,49 | 131                  | 2060                | 207,8                |  |    |    |    |    |         |     |     |     |     |
| 3      | 10    | 9,6      | 11   | 15    | 160M-4     | 1460                 | 5,69 | 152                  | 651                 | 65,7                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 15   | 20    | 160L-4     | 1460                 | 4,17 | 152                  | 888                 | 89,6                 |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 3,41 | 153                  | 1087                | 109,7                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,86 | 153                  | 1293                | 130,5                |  |    |    |    |    |         |     |     |     |     |
| 3      |       |          | 30   | 40    | 200L-4     | 1480                 | 2,12 | 154                  | 1751                | 176,7                |  |    |    |    |    |         |     |     |     |     |
| 2      | 9     | 9,2      | 11   | 15    | 160M-4     | 1460                 | 4,71 | 159                  | 635                 | 64,0                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 15   | 20    | 160L-4     | 1460                 | 3,45 | 159                  | 865                 | 87,3                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 2,82 | 160                  | 1060                | 107,0                |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,37 | 160                  | 1261                | 127,2                |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200L-4     | 1480                 | 1,75 | 161                  | 1708                | 172,3                |  |    |    |    |    |         |     |     |     |     |
| 2      | 7     | 7,3      | 15   | 20    | 160L-4     | 1460                 | 4,17 | 199                  | 692                 | 69,8                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 3,41 | 200                  | 848                 | 85,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,86 | 200                  | 1008                | 101,7                |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200L-4     | 1480                 | 2,11 | 202                  | 1365                | 137,7                |  |    |    |    |    |         |     |     |     |     |
| 2      | 5,5   | 5,4      | 15   | 20    | 160L-4     | 1460                 | 4,24 | 270                  | 510                 | 51,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 3,46 | 271                  | 625                 | 63,1                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,91 | 271                  | 744                 | 75,0                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200L-4     | 1480                 | 2,15 | 273                  | 1007                | 101,6                |  |    |    |    |    |         |     |     |     |     |
| 2      | 4,5   | 4,5      | 15   | 20    | 160L-4     | 1460                 | 4,24 | 324                  | 425                 | 42,9                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200LA-2    | 2950                 | 3,86 | 654                  | 421                 | 42,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 37   | 50    | 200LB-2    | 2950                 | 3,13 | 654                  | 519                 | 52,4                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 3,46 | 326                  | 521                 | 52,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 22   | 30    | 180L-4     | 1470                 | 2,91 | 326                  | 619                 | 62,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200L-4     | 1480                 | 2,15 | 328                  | 839                 | 84,7                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 4     | 4,0      | 15   | 20    | 160L-4     | 1460                 | 5,12 | 365                  | 377                 | 38,0                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200LA-2    | 2950                 | 4,66 | 738                  | 373                 | 37,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 37   | 50    | 200LB-2    | 2950                 | 3,78 | 738                  | 460                 | 46,4                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 4,18 | 368                  | 462                 | 46,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 22   | 30    | 180L-4     | 1470                 | 3,52 | 368                  | 549                 | 55,4                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200L-4     | 1480                 | 2,60 | 370                  | 744                 | 75,0                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 3,5   | 3,4      | 30   | 40    | 200LA-2    | 2950                 | 6,88 | 867                  | 317                 | 32,0                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 37   | 50    | 200LB-2    | 2950                 | 5,58 | 867                  | 391                 | 39,5                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 6,18 | 432                  | 393                 | 39,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 22   | 30    | 180L-4     | 1470                 | 5,20 | 432                  | 467                 | 47,1                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 2,5   | 2,5      | 30   | 40    | 200L-4     | 1480                 | 3,84 | 435                  | 632                 | 63,8                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200LA-2    | 2950                 | 6,88 | 1175                 | 234                 | 23,6                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 37   | 50    | 200LB-2    | 2950                 | 5,58 | 1175                 | 289                 | 29,2                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 18,5 | 25    | 180M-4     | 1470                 | 6,18 | 585                  | 290                 | 29,2                 |  |    |    |    |    |         |     |     |     |     |
| 2      | 2     | 2        | 22   | 30    | 180L-4     | 1470                 | 5,20 | 585                  | 345                 | 34,8                 |  |    |    |    |    |         |     |     |     |     |
| 2      |       |          | 30   | 40    | 200L-4     | 1480                 | 3,84 | 589                  | 467                 | 47,1                 |  |    |    |    |    |         |     |     |     |     |

# BACKLASH MAX [DEG]

| i:  | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|-----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|     | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 2   |          |      |          |      |          |      | 1,17     |      |          |      |          |      |          |      |
| 2,5 |          |      |          |      | 2,91     |      | 1,17     |      |          |      |          |      | 0,42     |      |
| 3   |          |      |          |      | 2,63     |      | 1,09     |      |          |      | 0,57     |      |          |      |
| 3,5 |          |      |          |      | 1,29     |      | 1,09     |      | 0,78     |      |          |      | 0,43     |      |
| 4   |          |      | 1,73     |      | 1,27     |      | 1,10     |      | 0,78     |      | 0,57     |      | 0,45     |      |
| 4,5 |          |      | 1,78     |      | 2,26     |      |          |      | 0,80     |      | 0,56     |      | 0,43     |      |
| 5   | 4,59     |      | 1,77     |      | 1,20     |      | 1,10     |      | 0,76     |      | 0,60     |      |          |      |
| 5,5 |          |      | 1,81     |      | 1,23     |      | 1,01     |      | 0,80     |      |          |      | 0,45     |      |
| 6   |          |      |          |      | 1,30     |      |          |      |          |      | 0,59     |      |          |      |
| 6,5 |          |      |          |      |          |      |          | 0,44 | 0,79     |      | 0,57     |      |          |      |
| 7   |          |      | 1,97     |      | 1,22     |      | 1,01     |      | 0,81     |      | 0,60     | 0,35 | 0,46     |      |
| 8   | 3,50     |      |          |      | 1,31     |      | 1,04     | 0,36 | 0,83     | 0,34 | 0,58     |      |          |      |
| 9   |          |      | 1,91     |      | 1,29     |      | 1,03     |      | 0,82     |      |          | 0,33 | 0,47     |      |
| 10  | 3,04     |      | 1,93     |      | 1,31     |      | 1,04     |      |          | 0,34 |          | 0,34 |          | 0,25 |
| 11  |          |      |          |      | 1,35     | 0,41 | 1,10     | 0,40 | 0,84     | 0,32 | 0,58     |      |          | 0,29 |
| 12  |          |      |          |      |          | 0,54 | 1,05     |      | 0,86     |      |          |      | 0,48     | 0,23 |
| 13  | 2,71     |      | 2,07     |      | 1,32     | 0,37 | 1,15     | 0,32 | 0,87     | 0,31 | 0,61     | 0,34 |          | 0,23 |
| 14  |          |      |          |      | 1,34     |      |          | 0,32 | 0,91     |      | 0,64     |      | 0,49     |      |
| 15  | 2,60     |      | 2,00     |      |          | 0,37 |          | 0,32 | 0,91     | 0,31 |          |      |          | 0,24 |
| 16  |          |      | 2,02     |      | 1,36     | 0,40 | 1,21     | 0,38 | 0,93     | 0,32 | 0,65     | 0,32 |          | 0,19 |
| 17  |          |      | 2,01     |      |          |      |          |      |          |      |          | 0,33 |          |      |
| 18  |          |      |          |      |          | 0,36 |          | 0,31 |          | 0,32 | 0,65     |      |          | 0,19 |
| 19  |          |      | 2,03     |      |          | 0,36 |          |      |          |      |          |      |          |      |
| 20  | 2,57     |      | 2,14     |      | 1,40     |      |          | 0,32 |          | 0,31 |          | 0,33 |          | 0,23 |
| 21  |          |      |          |      | 1,40     | 0,40 |          | 0,38 |          | 0,32 |          |      |          | 0,24 |
| 22  |          |      |          | 0,41 | 1,39     | 0,40 |          |      |          |      |          | 0,34 |          |      |
| 23  |          |      | 2,16     |      | 1,47     |      |          | 0,30 |          | 0,32 |          |      |          | 0,22 |
| 24  |          |      | 2,29     |      |          |      |          | 0,31 |          | 0,30 |          | 0,23 |          |      |
| 25  | 2,64     |      |          | 0,39 | 1,47     | 0,35 |          |      | 0,28     |      | 0,31     |      |          |      |
| 26  |          |      |          | 0,41 |          |      |          | 0,30 |          |      |          | 0,33 |          | 0,24 |
| 27  |          |      |          |      |          | 0,36 |          |      |          | 0,32 |          |      |          | 0,23 |
| 28  |          |      |          | 0,40 |          |      |          | 0,31 |          | 0,32 |          | 0,32 |          |      |
| 29  |          |      |          |      |          |      |          |      |          |      |          |      |          | 0,23 |
| 30  |          | 0,51 |          | 0,39 |          | 0,36 |          | 0,30 |          | 0,30 |          |      |          |      |
| 31  |          |      |          |      |          |      |          |      |          | 0,26 |          |      |          |      |
| 32  |          |      |          |      |          | 0,46 |          |      |          | 0,30 |          | 0,32 |          | 0,23 |
| 33  |          |      |          | 0,38 |          |      |          |      |          |      |          | 0,31 |          | 0,24 |

| i: | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|    | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 34 |          |      |          | 0,40 |          | 0,35 |          | 0,31 |          |      |          |      |          |      |
| 35 |          | 0,47 |          |      |          |      |          | 0,30 |          | 0,30 |          | 0,23 |          |      |
| 36 |          |      |          |      |          | 0,35 |          | 0,31 |          | 0,30 |          | 0,25 |          | 0,22 |
| 37 |          |      |          | 0,35 |          |      |          |      |          | 0,28 |          |      |          |      |
| 38 |          |      |          |      |          | 0,41 |          | 0,26 |          | 0,26 |          |      |          |      |
| 39 |          | 0,50 |          | 0,38 |          |      |          |      |          |      |          |      |          | 0,23 |
| 40 |          |      |          |      |          |      |          | 0,29 |          |      |          | 0,24 |          |      |
| 41 |          |      |          |      |          | 0,35 |          | 0,31 |          | 0,27 |          | 0,25 |          | 0,22 |
| 42 |          |      |          | 0,41 |          | 0,34 |          | 0,36 |          |      |          |      |          | 0,22 |
| 43 |          |      |          | 0,40 |          | 0,34 |          |      |          | 0,26 |          |      |          |      |
| 44 |          |      |          |      |          |      |          |      |          | 0,27 |          |      |          |      |
| 45 |          |      |          |      |          | 0,35 |          | 0,34 |          | 0,30 |          |      | 0,24     | 0,23 |
| 46 |          | 0,46 |          |      |          |      |          | 0,27 |          | 0,29 |          |      |          | 0,22 |
| 47 |          |      |          |      |          |      |          | 0,26 |          |      |          |      |          |      |
| 48 |          |      |          | 0,38 |          | 0,34 |          |      |          | 0,26 |          | 0,23 |          | 0,22 |
| 49 |          |      |          |      |          |      |          | 0,26 |          | 0,25 |          |      |          |      |
| 50 |          | 0,52 |          | 0,37 |          |      |          |      |          | 0,27 |          |      |          | 0,22 |
| 51 |          |      |          |      |          | 0,39 |          | 0,30 |          |      |          |      |          | 0,23 |
| 52 |          |      |          |      |          |      |          | 0,27 |          |      |          | 0,24 |          | 0,20 |
| 53 |          |      |          |      |          | 0,39 |          |      |          | 0,26 |          |      |          |      |
| 54 |          |      |          |      |          | 0,39 |          | 0,25 |          |      |          |      |          | 0,22 |
| 55 |          | 0,48 |          |      |          | 0,34 |          |      |          | 0,25 |          |      |          |      |
| 56 |          |      |          |      |          |      |          | 0,26 |          |      |          | 0,23 |          |      |
| 57 |          |      |          | 0,35 |          | 0,33 |          |      |          | 0,26 |          |      |          | 0,22 |
| 58 |          |      |          | 0,38 |          |      |          |      |          |      |          |      |          |      |
| 59 |          | 0,46 |          |      |          |      |          | 0,29 |          |      |          |      |          | 0,19 |
| 60 |          |      |          | 0,39 |          | 0,37 |          |      |          |      |          | 0,22 |          |      |
| 61 |          |      |          | 0,37 |          |      |          |      |          |      |          |      |          | 0,22 |
| 62 |          |      |          |      |          |      |          |      |          | 0,26 |          | 0,23 |          |      |
| 63 |          |      |          | 0,37 |          |      |          | 0,33 |          |      |          |      |          | 0,20 |
| 64 |          | 0,45 |          |      |          | 0,33 |          |      |          | 0,26 |          |      |          |      |
| 65 |          |      |          | 0,40 |          |      |          |      |          | 0,25 |          | 0,23 |          | 0,22 |
| 66 |          |      |          |      |          |      |          |      |          |      |          |      |          | 0,22 |
| 67 |          |      |          |      |          | 0,29 |          |      |          |      |          |      |          | 0,19 |
| 68 |          |      |          |      |          | 0,29 |          | 0,26 |          |      |          |      |          |      |
| 69 |          |      |          | 0,37 |          | 0,33 |          | 0,29 |          |      |          |      |          |      |
| 70 |          | 0,43 |          | 0,37 |          | 0,28 |          | 0,25 |          |      |          |      |          | 0,22 |
| 71 |          |      |          |      |          |      |          |      |          | 0,25 |          | 0,23 |          | 0,19 |
| 72 |          |      |          |      |          | 0,29 |          |      |          |      |          | 0,23 |          |      |

## BACKLASH MAX [DEG]

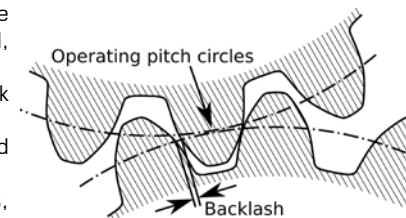
| i:  | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|-----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|     | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 73  |          |      |          | 0,35 |          | 0,29 |          | 0,32 |          |      |          |      |          | 0,18 |
| 74  |          |      |          |      |          |      |          |      |          | 0,25 |          |      |          |      |
| 75  |          |      |          | 0,37 |          | 0,28 |          | 0,24 |          |      |          |      |          | 0,22 |
| 76  |          | 0,41 |          | 0,37 |          | 0,28 |          |      |          |      |          |      |          | 0,19 |
| 77  |          |      |          |      |          |      |          | 0,26 |          |      |          |      |          | 0,18 |
| 78  |          |      |          |      |          | 0,29 |          |      |          |      |          |      |          |      |
| 79  |          |      |          |      |          |      |          |      |          | 0,24 |          |      |          |      |
| 80  |          |      |          | 0,35 |          | 0,28 |          | 0,25 |          |      |          | 0,20 |          |      |
| 81  |          | 0,41 |          |      |          | 0,28 |          |      |          |      |          |      |          | 0,19 |
| 82  |          |      |          |      |          | 0,29 |          |      |          | 0,24 |          |      |          | 0,17 |
| 83  |          |      |          |      |          |      |          |      |          |      |          | 0,23 |          | 0,18 |
| 84  |          |      |          | 0,35 |          | 0,31 |          |      |          |      |          | 0,23 |          | 0,17 |
| 85  |          | 0,42 |          | 0,33 |          | 0,28 |          | 0,28 |          | 0,24 |          |      |          |      |
| 86  |          |      |          |      |          |      |          | 0,27 |          |      |          |      |          | 0,19 |
| 87  |          |      |          | 0,35 |          | 0,30 |          |      |          | 0,24 |          |      |          | 0,19 |
| 88  |          |      |          |      |          |      |          | 0,23 |          |      |          | 0,20 |          |      |
| 89  |          |      |          | 0,33 |          |      |          |      |          |      |          |      |          | 0,18 |
| 90  |          |      |          |      |          | 0,29 |          | 0,25 |          | 0,24 |          |      |          |      |
| 91  |          |      |          | 0,35 |          | 0,28 |          |      |          | 0,24 |          |      |          |      |
| 92  |          | 0,41 |          |      |          |      |          |      |          | 0,24 |          |      |          | 0,18 |
| 93  |          |      |          |      |          |      |          |      |          | 0,24 |          |      |          | 0,18 |
| 94  |          |      |          |      |          | 0,28 |          |      |          |      |          |      |          |      |
| 95  |          |      |          |      |          | 0,28 |          |      |          |      |          |      |          | 0,18 |
| 96  |          |      |          |      |          |      |          |      |          | 0,24 |          |      |          | 0,17 |
| 97  |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 98  |          | 0,37 |          | 0,33 |          | 0,28 |          |      |          | 0,24 |          |      |          | 0,17 |
| 99  |          |      |          |      |          |      |          | 0,27 |          |      |          |      |          | 0,18 |
| 100 |          |      |          |      |          |      |          | 0,23 |          |      |          |      |          |      |
| 101 |          |      |          |      |          |      |          |      |          | 0,24 |          | 0,20 |          | 0,18 |
| 102 |          |      |          |      |          | 0,28 |          |      |          |      |          | 0,20 |          | 0,18 |
| 103 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 104 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 105 |          |      |          |      |          |      |          |      |          | 0,24 |          |      |          |      |
| 106 |          |      |          | 0,33 |          | 0,30 |          | 0,26 |          | 0,24 |          |      |          |      |
| 107 |          |      |          |      |          |      |          |      |          |      |          | 0,20 |          |      |
| 108 |          | 0,38 |          |      |          |      |          |      |          |      |          | 0,20 |          | 0,18 |
| 109 |          |      |          |      |          |      |          |      |          |      |          |      |          | 0,17 |
| 110 |          |      |          | 0,31 |          | 0,28 |          |      |          | 0,24 |          |      |          |      |
| 111 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |

| i:  | ROBUS A2 |      | ROBUS 25 |      | ROBUS 30 |      | ROBUS 35 |      | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|-----|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|     | A2-2     | A2-3 | 25-2     | 25-3 | 30-2     | 30-3 | 35-2     | 35-3 | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 112 |          |      |          |      |          |      |          |      |          |      |          |      |          | 0,17 |
| 113 |          |      |          | 0,32 |          |      |          | 0,23 |          |      |          |      |          |      |
| 114 |          |      |          |      |          | 0,28 |          |      |          |      |          |      |          |      |
| 115 |          |      |          | 0,30 |          | 0,27 |          |      |          |      |          |      |          | 0,18 |
| 116 |          |      |          |      |          |      |          |      |          | 0,24 |          |      |          |      |
| 117 |          |      |          |      |          |      |          |      |          |      |          | 0,19 |          |      |
| 118 |          |      |          |      |          |      |          |      |          |      |          | 0,19 |          |      |
| 119 |          | 0,35 |          | 0,30 |          |      |          |      |          |      |          |      |          | 0,17 |
| 120 |          |      |          |      |          | 0,29 |          |      |          |      |          |      |          |      |
| 121 |          |      |          | 0,31 |          |      |          |      |          |      |          |      |          |      |
| 122 |          |      |          |      |          |      |          |      |          | 0,24 |          |      |          |      |
| 123 |          |      |          | 0,31 |          |      |          | 0,25 |          |      |          |      |          |      |
| 124 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 125 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 126 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 127 |          |      |          |      |          |      |          |      |          |      |          |      |          | 0,17 |
| 128 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 129 |          |      |          |      |          | 0,27 |          |      |          |      |          |      |          |      |
| 130 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 131 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 132 |          |      |          | 0,31 |          |      |          |      |          |      |          |      |          |      |
| 133 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 134 |          | 0,35 |          |      |          |      |          |      |          |      |          |      |          |      |
| 135 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 136 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 137 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 138 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 139 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 140 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 141 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 142 |          |      |          |      |          |      |          |      |          |      |          |      |          |      |
| 143 |          |      |          | 0,30 |          |      |          |      |          |      |          |      |          |      |

Backlash, sometimes called lash or play, is a clearance between mating gear teeth. Reasons for the presence of backlash include provide space for a film of lubricating oil between the teeth, deflection under load, thermal expansion, and machining tolerances

It can be seen when the direction of movement is reversed and the slack or lost motion is taken up before the reversal of motion is complete. In certain applications, backlash is an undesirable characteristic and should be known, ratio by ratio, and eventually minimized.

With precise gears having a ground profile like in Motive helical gearboxes, the backlash is optimized to be suitable for most of applications while preserving at the same time the lubrication, efficiency, heating, gears life and reliability of the gearbox.



# MOMENT OF INERTIA

| i:  | ROBUS A2 |          | ROBUS 25 |          | ROBUS 30 |          | ROBUS 35 |          | ROBUS 40 |          | ROBUS 50 |          | ROBUS 60 |          |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|     | A2-2     | A2-3     | 25-2     | 25-3     | 30-2     | 30-3     | 35-2     | 35-3     | 40-2     | 40-3     | 50-2     | 50-3     | 60-2     | 60-3     |
| 2   |          |          |          |          |          |          | 0,001325 |          |          |          |          |          |          |          |
| 2,5 |          |          |          |          | 0,000676 |          | 0,000968 |          |          |          |          |          | 0,012502 |          |
| 3   |          |          |          |          | 0,000611 |          | 0,001022 |          |          |          | 0,004082 |          |          |          |
| 3,5 |          |          |          |          | 0,000523 |          | 0,000769 |          | 0,001096 |          |          |          | 0,010008 |          |
| 4   |          |          | 0,000286 |          | 0,000480 |          | 0,000850 |          | 0,000867 |          | 0,002465 |          | 0,005905 |          |
| 4,5 |          |          | 0,000275 |          | 0,000517 |          |          |          | 0,000928 |          | 0,003098 |          | 0,008291 |          |
| 5   | 0,000278 |          | 0,000251 |          | 0,000402 |          | 0,000656 |          | 0,000702 |          | 0,001794 |          |          |          |
| 5,5 |          |          | 0,000244 |          | 0,000318 |          | 0,000455 |          | 0,000749 |          |          |          | 0,004922 |          |
| 6   |          |          |          |          | 0,000414 |          |          |          |          |          | 0,002733 |          |          |          |
| 6,5 |          |          |          |          |          |          | 0,002757 | 0,000618 |          |          | 0,001951 |          |          |          |
| 7   |          |          | 0,000236 |          | 0,000304 |          | 0,000349 |          | 0,000476 |          | 0,001169 | 0,011960 | 0,003171 |          |
| 8   | 0,000185 |          |          |          | 0,000260 |          | 0,000411 | 0,005306 | 0,000425 | 0,003382 | 0,001459 |          |          |          |
| 9   |          |          | 0,000193 |          | 0,000251 |          | 0,000310 |          | 0,000451 |          | 0,011599 | 0,002324 |          |          |
| 10  | 0,000140 |          | 0,000191 |          | 0,000242 |          | 0,000324 |          |          | 0,002628 |          | 0,006736 | 0,061924 |          |
| 11  |          |          |          |          | 0,000228 | 0,001116 | 0,000261 | 0,001353 | 0,000392 | 0,003283 | 0,000984 |          | 0,023494 |          |
| 12  |          |          |          |          | 0,002327 | 0,000291 |          | 0,000408 |          |          |          |          | 0,001704 | 0,060950 |
| 13  | 0,000110 |          | 0,000189 |          | 0,000240 | 0,001233 | 0,000243 | 0,005111 | 0,000329 | 0,002558 | 0,000810 | 0,004751 | 0,060737 |          |
| 14  |          |          |          |          | 0,000232 |          |          | 0,003506 | 0,000311 |          | 0,000724 |          | 0,001339 |          |
| 15  | 0,000093 |          | 0,000175 |          |          | 0,001638 |          | 0,001624 | 0,000295 | 0,002066 |          |          | 0,028154 |          |
| 16  |          |          | 0,000173 |          | 0,000220 | 0,000747 | 0,000220 | 0,000840 | 0,000287 | 0,001555 | 0,000607 | 0,004628 | 0,074822 |          |
| 17  |          |          | 0,000174 |          |          |          |          |          |          |          |          | 0,003076 |          |          |
| 18  |          |          |          |          |          | 0,001211 |          | 0,001603 |          | 0,001344 | 0,000542 |          | 0,074627 |          |
| 19  |          |          | 0,000172 |          |          | 0,000793 |          |          |          |          |          |          |          |          |
| 20  | 0,000070 |          | 0,000173 |          | 0,000203 |          |          | 0,001083 |          | 0,001528 |          | 0,002516 | 0,027770 |          |
| 21  |          |          |          |          | 0,000199 | 0,000580 |          | 0,000693 |          | 0,001263 |          |          | 0,018116 |          |
| 22  |          |          |          | 0,000324 | 0,000198 | 0,000556 |          |          |          |          | 0,002245 |          |          |          |
| 23  |          |          | 0,000171 |          | 0,000201 |          |          | 0,001585 |          | 0,001203 |          |          | 0,027606 |          |
| 24  |          |          | 0,000170 |          |          |          |          | 0,001070 |          | 0,001325 |          | 0,008620 |          |          |
| 25  | 0,000057 |          |          | 0,000340 | 0,000197 | 0,000782 |          |          |          | 0,001395 |          | 0,002467 |          |          |
| 26  |          |          |          | 0,000278 |          |          |          | 0,001574 |          |          |          | 0,001928 | 0,013779 |          |
| 27  |          |          |          |          | 0,000565 |          |          |          |          | 0,001115 |          |          | 0,017907 |          |
| 28  |          |          |          | 0,000321 |          |          |          | 0,000889 |          | 0,001097 |          | 0,002205 |          |          |
| 29  |          |          |          |          |          |          |          |          |          |          |          |          | 0,017862 |          |
| 30  |          | 0,000119 |          | 0,000288 |          | 0,000512 |          | 0,001060 |          | 0,001190 |          |          |          |          |
| 31  |          |          |          |          |          |          |          |          |          | 0,002355 |          |          |          |          |
| 32  |          |          |          |          |          | 0,000459 |          |          |          | 0,001148 |          | 0,001914 | 0,011063 |          |
| 33  |          |          |          | 0,000326 |          |          |          |          |          |          |          | 0,001898 | 0,010967 |          |

| i: | ROBUS A2 |          | ROBUS 25 |          | ROBUS 30 |          | ROBUS 35 |          | ROBUS 40 |          | ROBUS 50 |          | ROBUS 60 |          |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|    | A2-2     | A2-3     | 25-2     | 25-3     | 30-2     | 30-3     | 35-2     | 35-3     | 40-2     | 40-3     | 50-2     | 50-3     | 60-2     | 60-3     |
| 34 |          |          |          | 0,000276 |          | 0,000587 |          | 0,000614 |          |          |          |          |          |          |
| 35 |          | 0,000115 |          |          |          |          |          | 0,000881 |          | 0,001106 |          | 0,008030 |          |          |
| 36 |          |          |          |          | 0,000559 |          | 0,000682 |          | 0,001089 |          | 0,002371 |          | 0,013617 |          |
| 37 |          |          |          | 0,000342 |          |          |          |          | 0,001075 |          |          |          |          |          |
| 38 |          |          |          |          |          | 0,000449 |          | 0,001009 |          | 0,001536 |          |          |          |          |
| 39 |          | 0,000117 |          | 0,000279 |          |          |          |          |          |          |          |          |          | 0,009480 |
| 40 |          |          |          |          |          |          |          | 0,000877 |          |          |          | 0,002749 |          |          |
| 41 |          |          |          |          | 0,000508 |          | 0,000610 |          | 0,001182 |          | 0,001910 |          | 0,010976 |          |
| 42 |          |          |          | 0,000205 | 0,000557 |          | 0,000527 |          |          |          |          |          | 0,010882 |          |
| 43 |          |          |          | 0,000230 | 0,000583 |          |          |          |          | 0,001367 |          |          |          |          |
| 44 |          |          |          |          |          |          |          |          |          | 0,001124 |          |          |          |          |
| 45 |          |          |          | 0,000290 | 0,000460 |          | 0,000678 |          |          |          | 0,002338 |          | 0,008670 |          |
| 46 |          | 0,000115 |          |          |          |          | 0,000651 |          | 0,001083 |          |          |          | 0,010575 |          |
| 47 |          |          |          |          |          |          | 0,001002 |          |          |          |          |          |          |          |
| 48 |          |          |          | 0,000207 | 0,000507 |          |          |          |          | 0,001256 |          | 0,003540 | 0,010939 |          |
| 49 |          |          |          |          |          |          | 0,000740 |          | 0,001363 |          |          |          |          |          |
| 50 |          | 0,000121 |          | 0,000232 |          |          |          |          | 0,001043 |          |          |          | 0,009420 |          |
| 51 |          |          |          |          |          | 0,000447 |          | 0,000607 |          |          |          |          | 0,008091 |          |
| 52 |          |          |          |          |          |          | 0,000599 |          |          |          | 0,001859 |          | 0,009973 |          |
| 53 |          |          |          | 0,000208 |          |          |          |          |          | 0,001175 |          |          |          |          |
| 54 |          |          |          | 0,000204 |          |          |          | 0,000998 |          |          |          |          | 0,009407 |          |
| 55 |          | 0,000118 |          |          |          | 0,000416 |          |          |          | 0,001252 |          |          |          |          |
| 56 |          |          |          |          |          |          | 0,000647 |          |          |          | 0,003521 |          |          |          |
| 57 |          |          |          | 0,000238 | 0,000458 |          |          |          | 0,001118 |          |          |          | 0,008624 |          |
| 58 |          |          |          | 0,000186 |          |          |          |          |          |          |          |          |          |          |
| 59 |          | 0,000116 |          |          |          |          | 0,000605 |          |          |          |          |          | 0,011862 |          |
| 60 |          |          |          | 0,000190 | 0,000446 |          |          |          |          |          | 0,001753 |          |          |          |
| 61 |          |          |          | 0,000209 |          |          |          |          |          |          |          |          | 0,008329 |          |
| 62 |          |          |          |          |          |          |          |          |          | 0,001062 | 0,002305 |          |          |          |
| 63 |          |          |          | 0,000206 |          |          |          | 0,000522 |          |          |          |          | 0,008581 |          |
| 64 |          | 0,000115 |          |          |          | 0,000416 |          |          |          | 0,001038 |          |          |          |          |
| 65 |          |          |          | 0,000185 |          |          |          |          |          | 0,001115 | 0,002694 |          | 0,008056 |          |
| 66 |          |          |          |          |          |          |          |          |          |          |          |          | 0,008605 |          |
| 67 |          |          |          |          |          | 0,000484 |          |          |          |          |          |          | 0,008234 |          |
| 68 |          |          |          |          |          | 0,000639 |          | 0,000644 |          |          |          |          |          |          |
| 69 |          |          |          | 0,000191 | 0,000415 |          | 0,000536 |          |          |          |          |          |          |          |
| 70 |          | 0,000112 |          | 0,000191 | 0,000544 |          | 0,000733 |          |          |          |          |          | 0,008048 |          |
| 71 |          |          |          |          |          |          |          |          | 0,001059 |          | 0,001860 |          | 0,009908 |          |
| 72 |          |          |          |          |          | 0,000603 |          |          |          |          | 0,001834 |          |          |          |

# MOMENT OF INERTIA

| i:  | ROBUS A2 |          | ROBUS 25 |          | ROBUS 30 |          | ROBUS 35 |          | ROBUS 40 |      | ROBUS 50 |      | ROBUS 60 |      |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|----------|------|----------|------|
|     | A2-2     | A2-3     | 25-2     | 25-3     | 30-2     | 30-3     | 35-2     | 35-3     | 40-2     | 40-3 | 50-2     | 50-3 | 60-2     | 60-3 |
| 73  |          |          |          | 0,000208 |          | 0,000537 |          | 0,000520 |          |      |          |      | 0,011814 |      |
| 74  |          |          |          |          |          |          |          |          | 0,01036  |      |          |      |          |      |
| 75  |          |          |          | 0,000185 |          | 0,000611 |          | 0,000789 |          |      |          |      | 0,008041 |      |
| 76  |          | 0,000109 |          | 0,000186 |          | 0,000543 |          |          |          |      |          |      | 0,008917 |      |
| 77  |          |          |          |          |          |          |          | 0,000594 |          |      |          |      | 0,011337 |      |
| 78  |          |          |          |          |          | 0,000422 |          |          |          |      |          |      |          |      |
| 79  |          |          |          |          |          |          |          |          | 0,001268 |      |          |      |          |      |
| 80  |          |          |          | 0,000192 |          | 0,000424 |          | 0,000642 |          |      | 0,002597 |      |          |      |
| 81  |          | 0,000109 |          |          |          | 0,000478 |          |          |          |      |          |      | 0,008545 |      |
| 82  |          |          |          |          |          | 0,000536 |          |          | 0,001380 |      |          |      | 0,012025 |      |
| 83  |          |          |          |          |          |          |          |          |          |      | 0,001851 |      | 0,009055 |      |
| 84  |          |          |          | 0,000194 |          | 0,000456 |          |          |          |      | 0,001826 |      | 0,010103 |      |
| 85  |          | 0,000111 |          | 0,000217 |          | 0,000542 |          | 0,000534 | 0,001191 |      |          |      |          |      |
| 86  |          |          |          |          |          |          |          | 0,000557 |          |      |          |      | 0,008202 |      |
| 87  |          |          |          | 0,000186 |          | 0,000459 |          |          | 0,001302 |      |          |      | 0,008537 |      |
| 88  |          |          |          |          |          |          |          | 0,000787 |          |      | 0,002704 |      |          |      |
| 89  |          |          |          | 0,000212 |          |          |          |          |          |      |          |      | 0,009875 |      |
| 90  |          |          |          |          |          | 0,000421 |          | 0,000592 | 0,001423 |      |          |      |          |      |
| 91  |          |          |          | 0,000188 |          | 0,000477 |          |          | 0,001266 |      |          |      |          |      |
| 92  |          | 0,000108 |          |          |          |          |          |          | 0,001116 |      |          |      | 0,008195 |      |
| 93  |          |          |          |          |          |          |          |          | 0,001220 |      |          |      | 0,008529 |      |
| 94  |          |          |          |          |          | 0,000424 |          |          |          |      |          |      |          |      |
| 95  |          |          |          |          |          | 0,000482 |          |          |          |      |          |      | 0,008291 |      |
| 96  |          |          |          |          |          |          |          |          | 0,001084 |      |          |      | 0,009038 |      |
| 97  |          |          |          |          |          |          |          |          |          |      |          |      |          |      |
| 98  |          | 0,000108 |          | 0,000195 |          | 0,000421 |          |          | 0,001189 |      |          |      | 0,010082 |      |
| 99  |          |          |          |          |          |          |          | 0,000533 |          |      |          |      | 0,008188 |      |
| 100 |          |          |          |          |          |          |          | 0,000681 |          |      |          |      |          |      |
| 101 |          |          |          |          |          |          |          |          | 0,001139 |      | 0,002134 |      | 0,008284 |      |
| 102 |          |          |          |          |          | 0,000423 |          |          |          |      | 0,002100 |      | 0,008884 |      |
| 103 |          |          |          |          |          |          |          |          |          |      |          |      |          |      |
| 104 |          |          |          |          |          |          |          |          |          |      |          |      |          |      |
| 105 |          |          |          |          |          |          |          |          | 0,001105 |      |          |      |          |      |
| 106 |          |          |          | 0,000189 |          | 0,000458 |          | 0,000555 | 0,001114 |      |          |      |          |      |
| 107 |          |          |          |          |          |          |          |          |          |      | 0,002050 |      |          |      |
| 108 |          | 0,000107 |          |          |          |          |          |          |          |      | 0,002019 |      | 0,008515 |      |
| 109 |          |          |          |          |          |          |          |          |          |      |          |      | 0,008278 |      |
| 110 |          |          |          | 0,000218 |          | 0,000420 |          |          | 0,001082 |      |          |      |          |      |
| 111 |          |          |          |          |          |          |          |          |          |      |          |      |          |      |

| i:  | ROBUS A2 |          | ROBUS 25 |          | ROBUS 30 |          | ROBUS 35 |          | ROBUS 40 |          | ROBUS 50 |          | ROBUS 60 |          |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|     | A2-2     | A2-3     | 25-2     | 25-3     | 30-2     | 30-3     | 35-2     | 35-3     | 40-2     | 40-3     | 50-2     | 50-3     | 60-2     | 60-3     |
| 112 |          |          |          |          |          |          |          |          |          |          |          |          |          | 0,009022 |
| 113 |          |          |          | 0,000191 |          |          |          | 0,000620 |          |          |          |          |          |          |
| 114 |          |          |          |          |          | 0,000423 |          |          |          |          |          |          |          |          |
| 115 |          |          |          | 0,000226 |          | 0,000429 |          |          |          |          |          |          |          | 0,008176 |
| 116 |          |          |          |          |          |          |          |          |          | 0,001137 |          |          |          |          |
| 117 |          |          |          |          |          |          |          |          |          |          |          | 0,002126 |          |          |
| 118 |          |          |          |          |          |          |          |          |          |          |          | 0,002093 |          |          |
| 119 |          | 0,000108 |          | 0,000221 |          |          |          |          |          |          |          |          |          | 0,008628 |
| 120 |          |          |          |          |          | 0,000465 |          |          |          |          |          |          |          |          |
| 121 |          |          |          | 0,000200 |          |          |          |          |          |          |          |          |          |          |
| 122 |          |          |          |          |          |          |          |          |          | 0,001103 |          |          |          |          |
| 123 |          |          |          | 0,000193 |          |          |          | 0,000554 |          |          |          |          |          |          |
| 124 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 125 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 126 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 127 |          |          |          |          |          |          |          |          |          |          |          |          |          | 0,008265 |
| 128 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 129 |          |          |          |          |          | 0,000429 |          |          |          |          |          |          |          |          |
| 130 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 131 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 132 |          |          |          | 0,000192 |          |          |          |          |          |          |          |          |          |          |
| 133 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 134 |          | 0,000107 |          |          |          |          |          |          |          |          |          |          |          |          |
| 135 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 136 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 137 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 138 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 139 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 140 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 141 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 142 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 143 |          |          |          | 0,000194 |          |          |          |          |          |          |          |          |          |          |

The **moment of inertia**  $J_R$ , expressed in  $Kgm^2$ , represents the measure of the opposition that the gearbox exhibits to its rotation, and is referred to the input shaft.

Though a gearbox has, for the mass and geometry of its moved parts, a moment of inertia, adding a gearbox to a motor-driven system reduces the driven load **inertia** a lot, by the inverse square of the gear ratio ( $i^2$ ).

# WEIGHTS



## Weights including oil in Kg

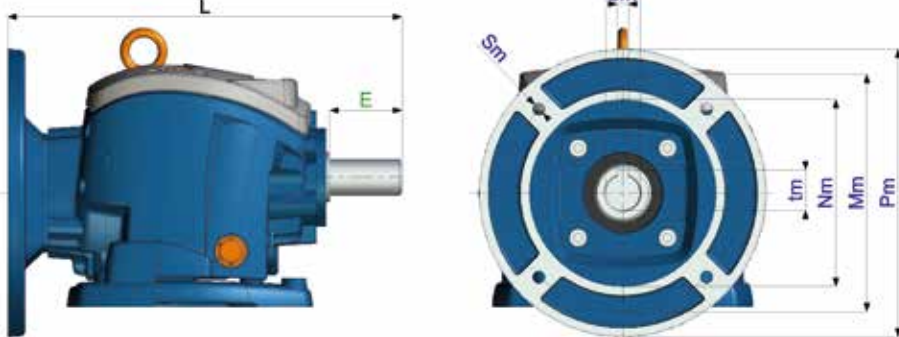
|            |                                                                                    | ROBUSA-2 |     | ROBUS25 |      | ROBUS30 |      | ROBUS35 |      | ROBUS40 |      | ROBUS50 |       | ROBUS60 |       |
|------------|------------------------------------------------------------------------------------|----------|-----|---------|------|---------|------|---------|------|---------|------|---------|-------|---------|-------|
| input      |                                                                                    | 2        | 3   | 2       | 3    | 2       | 3    | 2       | 3    | 2       | 3    | 2       | 3     | 2       | 3     |
| 63 B14     | UNV                                                                                | 5,1      | 5,9 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 71 B14     |                                                                                    | 5,2      | 6,0 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 80B14      |                                                                                    | 5,4      | 6,2 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 63/71 B5   |                                                                                    | -        | -   | 12,8    | 13,4 | 22,2    | 23,4 | 32,0    | 33,5 | -       | -    | -       | -     | -       | -     |
| 80/90 B5   |                                                                                    | -        | -   | 13,7    | 14,3 | 23,4    | 24,2 | 32,5    | 34,2 | 39,4    | 41,7 | 74,0    | 78,6  | -       | -     |
| 100/112 B5 |   | -        | -   | 15,4    | 16,0 | 24,7    | 25,7 | 34,2    | 35,7 | 40,9    | 43,1 | 75,1    | 82,9  | 135,8   | 141,2 |
| 132 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | 47,3    | 49,6 | 87,5    | 92,0  | 136,9   | 142,3 |
| 160 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | 89,9    | -     | 139,3   | 144,3 |
| 180 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | 139,0   | 144,4 |
| 63 B14     | FSW                                                                                | 5,5      | 6,3 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 71 B14     |                                                                                    | 5,6      | 6,4 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 80 B14     |                                                                                    | 5,8      | 6,6 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 63/71 B5   |                                                                                    | -        | -   | 14,7    | 15,3 | 25,8    | 27,0 | 37,2    | 38,7 | -       | -    | -       | -     | -       | -     |
| 80/90 B5   |                                                                                    | -        | -   | 15,6    | 16,2 | 27,0    | 27,8 | 37,7    | 39,4 | 45,9    | 48,2 | 88,0    | 92,6  | -       | -     |
| 100/112 B5 |   | -        | -   | 17,3    | 17,9 | 28,3    | 29,3 | 39,4    | 40,9 | 47,4    | 49,6 | 89,1    | 96,9  | 164,8   | 170,2 |
| 132 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | 53,8    | 56,1 | 101,5   | 106,0 | 165,9   | 171,3 |
| 160 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | 103,9   | -     | 168,3   | 173,3 |
| 180 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | 168,0   | 173,4 |
| 63 B14     | FBF                                                                                | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 71B14      |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 80 B14     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | -       | -     |
| 63/71 B5   |                                                                                    | -        | -   | 15,6    | 16,2 | 26,6    | 27,8 | 39,5    | 41,0 | -       | -    | -       | -     | -       | -     |
| 80/90 B5   |                                                                                    | -        | -   | 16,4    | 17,1 | 27,8    | 28,6 | 40,0    | 41,7 | 49,7    | 52,0 | 95,7    | 100,3 | -       | -     |
| 100/112 B5 |  | -        | -   | 18,1    | 18,8 | 29,1    | 30,1 | 41,7    | 43,2 | 51,2    | 53,4 | 96,8    | 104,6 | 162,2   | 167,6 |
| 132 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | 57,6    | 59,9 | 109,2   | 113,7 | 163,3   | 168,7 |
| 160 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | 111,6   | -     | 165,7   | 170,7 |
| 180 B5     |                                                                                    | -        | -   | -       | -    | -       | -    | -       | -    | -       | -    | -       | -     | 165,4   | 170,8 |

|               |           |          |  |          |  |  |  |          |  |          |  |          |  |           |  |
|---------------|-----------|----------|--|----------|--|--|--|----------|--|----------|--|----------|--|-----------|--|
| 120 56B5      | =UNV+0,2  |          |  |          |  |  |  |          |  |          |  |          |  |           |  |
| 140 63B5      | =UNV+0,25 |          |  |          |  |  |  |          |  |          |  |          |  |           |  |
| 160 71B5      |           | =UNV+0,9 |  | =UNV+0,9 |  |  |  |          |  |          |  |          |  |           |  |
| 200 80/90B5   |           | =UNV+1,7 |  | =UNV+1,7 |  |  |  |          |  |          |  |          |  |           |  |
| 250 100/112B5 |           |          |  |          |  |  |  | =UNV+1,8 |  |          |  |          |  |           |  |
| 300 132B5     |           |          |  |          |  |  |  | =UNV+3,8 |  |          |  |          |  |           |  |
| 350 160/180B5 |           |          |  |          |  |  |  |          |  | =UNV+4,1 |  |          |  |           |  |
| 450 200B5     |           |          |  |          |  |  |  |          |  | =UNV+7,2 |  |          |  |           |  |
|               |           |          |  |          |  |  |  |          |  |          |  | =UNV+5,8 |  |           |  |
|               |           |          |  |          |  |  |  |          |  |          |  | =UNV+9,8 |  |           |  |
|               |           |          |  |          |  |  |  |          |  |          |  |          |  | =UNV+8,9  |  |
|               |           |          |  |          |  |  |  |          |  |          |  |          |  | =UNV+19,9 |  |

## DIMENSIONS

| ROBUS | motor type |     | Nm  | Mm  | Pm  | Sm  | Dm | tm   | bm | L(PAM) |
|-------|------------|-----|-----|-----|-----|-----|----|------|----|--------|
| A2    | 63         | B14 | 60  | 75  | 90  | M6  | 11 | 12,8 | 4  | 204,5  |
|       | 71         | B14 | 70  | 85  | 105 | M7  | 14 | 16,3 | 5  | 211,5  |
|       | 80         | B14 | 80  | 100 | 120 |     | 19 | 21,8 | 6  | 231,5  |
| 25    | 63         | B5  | 95  | 115 | 140 | M8  | 11 | 12,8 | 4  | 273,0  |
|       | 71         | B5  | 110 | 130 | 160 |     | 14 | 16,3 | 5  |        |
|       | 80         | B5  | 130 | 165 | 200 | M10 | 19 | 21,8 | 6  | 274,0  |
|       | 90         | B5  |     |     |     | M10 | 24 | 27,3 | 8  |        |
|       | 100/112    | B5  | 180 | 215 | 250 | M12 | 28 | 31,3 | 8  | 280,0  |
| 30    | 71         | B5  | 110 | 130 | 160 | M8  | 14 | 16,3 | 5  | 319,0  |
|       | 80         | B5  | 130 | 165 | 200 | M10 | 19 | 21,8 | 6  | 328,0  |
|       | 90         | B5  |     |     |     | M10 | 24 | 27,3 | 8  |        |
|       | 100/112    | B5  | 180 | 215 | 250 | M12 | 28 | 31,3 | 8  | 329,0  |
| 35    | 71         | B5  | 110 | 130 | 160 | M8  | 14 | 16,3 | 5  | 357,0  |
|       | 80         | B5  | 130 | 165 | 200 | M10 | 19 | 21,8 | 6  | 366,0  |
|       | 90         | B5  |     |     |     | M10 | 24 | 27,3 | 8  |        |
|       | 100/112    | B5  | 180 | 215 | 250 | M12 | 28 | 31,3 | 8  | 367,0  |
| 40    | 80         | B5  | 130 | 165 | 200 | M10 | 19 | 21,8 | 6  | 399,5  |
|       | 90         | B5  |     |     |     | M10 | 24 | 27,3 | 8  |        |
|       | 100/112    | B5  | 180 | 215 | 250 | M12 | 28 | 31,3 | 8  | 401,5  |
|       | 132        | B5  | 230 | 265 | 300 |     | 38 | 41,3 | 10 | 413,5  |
|       | 80         |     |     |     |     |     |    |      |    |        |
|       | 90         |     |     |     |     |     |    |      |    |        |
| 50    | 100/112    | B5  | 180 | 215 | 250 | M12 | 28 | 31,3 | 8  | 446,5  |
|       | 132        | B5  | 230 | 265 | 300 | M12 | 28 | 31,3 | 8  | 450,0  |
|       | 160        | B5  | 250 | 300 | 350 | M16 | 38 | 41,3 | 12 | 519,5  |
|       | 180        | B5  |     |     |     |     | 42 | 45,3 | 12 |        |
|       | 90         | B5  |     |     |     |     | 48 | 51,8 | 14 |        |
|       | 100/112    | B5  |     |     |     |     |    |      |    |        |
|       | 132        | B5  |     |     |     |     |    |      |    |        |
|       | 160        | B5  |     |     |     |     |    |      |    |        |
| 60    | 180        | B5  |     |     |     |     |    |      |    |        |
|       | 100/112    | B5  | 180 | 215 | 250 | M12 | 28 | 31,3 | 8  | 585,5  |
|       | 132        | B5  | 230 | 265 | 300 | M12 | 38 | 41,3 | 12 |        |
|       | 160        | B5  | 250 | 300 | 350 | M16 | 42 | 45,3 | 12 |        |
|       | 180        | B5  | 300 | 350 | 400 |     | 48 | 51,8 | 14 |        |
|       | 200        | B5  |     |     |     |     | 55 | 59,3 | 16 |        |
|       | 100/112    |     |     |     |     |     |    |      |    |        |
|       | 132        |     |     |     |     |     |    |      |    |        |
|       | 160        |     |     |     |     |     |    |      |    |        |
|       | 180        |     |     |     |     |     |    |      |    |        |
|       | 200        |     |     |     |     |     |    |      |    |        |

PAM

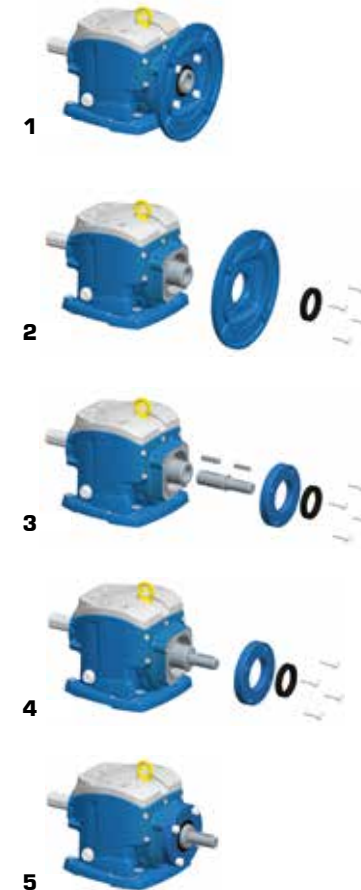


| B  | D1 | f        | b1 | t1   | L (MF) |
|----|----|----------|----|------|--------|
| 40 | 16 | M6x16    | 5  | 18   | 249,0  |
|    |    |          |    |      | 253,0  |
|    |    |          |    |      | 276,0  |
| 40 | 19 | M6x16    | 6  | 21,5 | 318,5  |
|    |    |          |    |      | 324,5  |
|    |    |          |    |      | 363,5  |
| 40 | 19 | M6x16    | 6  | 21,5 | 372,0  |
|    |    |          |    |      | 372,5  |
|    |    |          |    |      | 409,5  |
| 50 | 24 | M8x25    | 8  | 27   | 420,5  |
|    |    |          |    |      |        |
|    |    |          |    |      |        |
| 40 | 19 | M6x16    | 6  | 21,5 | 443,5  |
|    |    |          |    |      | 457,5  |
|    |    |          |    |      |        |
| 50 | 24 | M8x25    | 8  | 27   | 453,5  |
|    |    |          |    |      | 467,5  |
|    |    |          |    |      |        |
| 40 | 19 | M6x16    | 6  | 21,5 | 494,0  |
|    |    |          |    |      | 563,5  |
|    |    |          |    |      |        |
| 60 | 28 | M10x25.5 | 8  | 31   | 514,0  |
|    |    |          |    |      | 583,5  |
|    |    |          |    |      |        |
| 50 | 24 | M8x25    | 8  | 27   | 638,5  |
|    |    |          |    |      | 638,5  |
|    |    |          |    |      |        |
| 60 | 28 | M10x25.5 | 8  | 31   | 648,5  |
|    |    |          |    |      | 648,5  |
|    |    |          |    |      |        |

MF

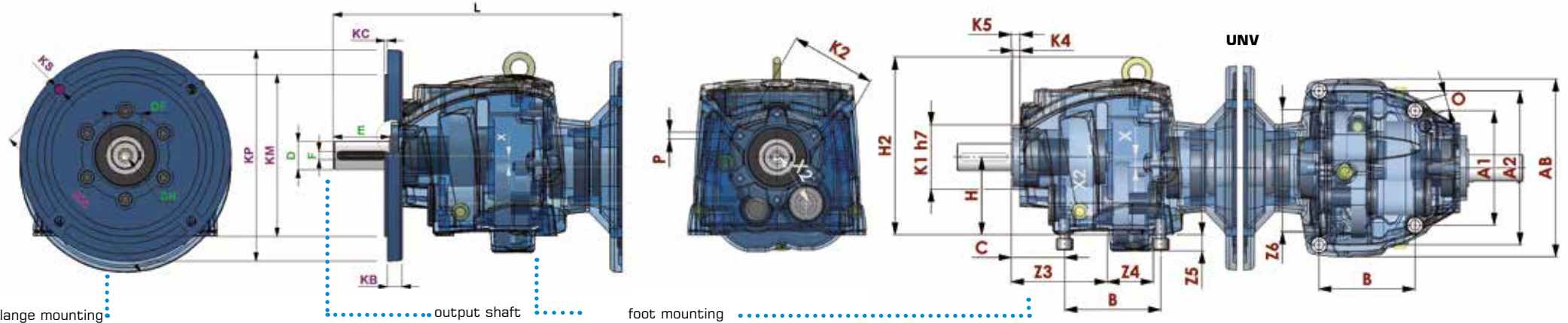


MF kit



You can download 2D and 3D drawings from [www.motive.it](http://www.motive.it)

## DIMENSIONS

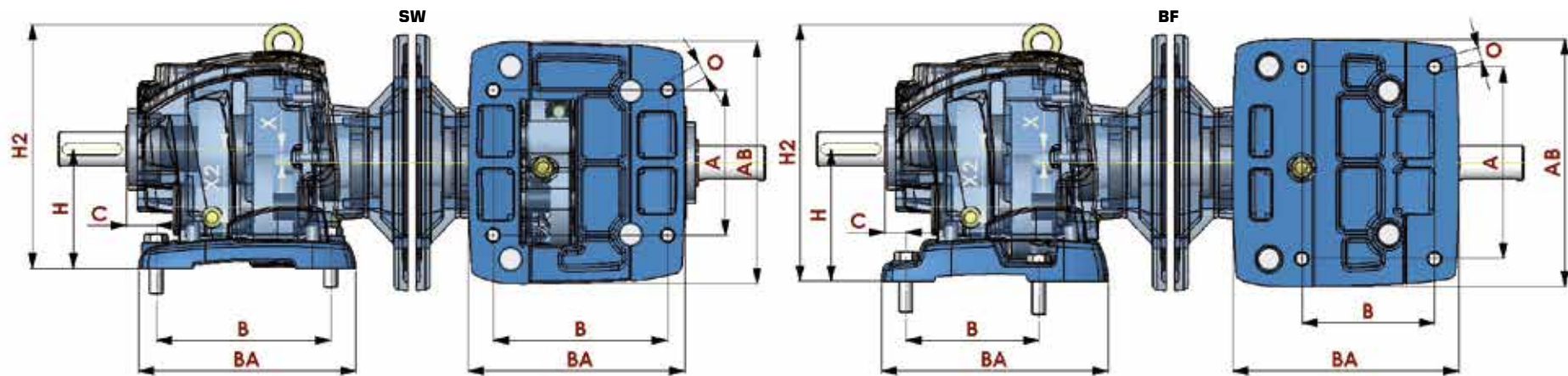


flange mounting

output shaft

foot mounting

| ROBUS | IEC       | KP  | KM  | KN  | KS | KC  | KB | D       | E   | F  | DF   | DH      | X    | X2   | type | B     | BA    | A                   | AB    | O   | H    | H2    | C    | P   | K1  | K2  | K4   | K5  | Z1  | Z2   | Z3  | Z4  | Z5   | Z6  |   |
|-------|-----------|-----|-----|-----|----|-----|----|---------|-----|----|------|---------|------|------|------|-------|-------|---------------------|-------|-----|------|-------|------|-----|-----|-----|------|-----|-----|------|-----|-----|------|-----|---|
| 25    | 80/90B5   | 200 | 130 | 165 | 11 | 3,5 | 12 | 25 (k6) | 50  | 8  | 28   | M10x20L | 11   | 52,5 | SW   | 130   | 171,5 | 110                 | 182   | 9   | 90   | 193,6 | 25   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   |   |
|       | 71B5      | 160 | 110 | 130 | 9  | 3,5 | 10 | 30 (k6) | 60  | 8  | 33   | M10x20L |      |      | BF   | 107,5 | 173,8 | 130                 | 180,5 | 9   | 100  | 203,5 | 18   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       |           |     |     |     |    |     |    |         |     |    |      |         |      |      | UNV  | 90,6  | -     | A1= 108 A2= 145,2   | 170   | M8  | 73,5 | 180   | 54,5 | M6  | 68  | 80  | 6,5  | 9,5 | 45  | 44   | 95  | 53  | 16,5 | 128 |   |
| 30    | 80/90B5   | 200 | 130 | 165 | 11 | 3,5 | 12 | 30 (k6) | 60  | 8  | 33   | M10x20L | 13,5 | 66   | SW   | 165   | 203   | 135                 | 230   | 14  | 115  | 238,6 | 31,6 | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       | 71B5      | 160 | 110 | 130 | 9  | 3,5 | 10 | 35 (k6) | 70  | 10 | 38   | M10x20L |      |      | BF   | 130   | 213,5 | 160                 | 231,5 | 14  | 120  | 243,5 | 19,6 | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       |           |     |     |     |    |     |    |         |     |    |      |         |      |      | UNV  | 115,8 | -     | A1= 138 A2= 185,6   | 215   | M12 | 94   | 215   | 64   | M8  | 80  | 94  | 6,5  | 10  | 56  | 55   | 116 | 54  | 20   | 155 |   |
| 35    | 100/112B5 | 250 | 180 | 215 | 14 | 4   | 15 | 35 (k6) | 70  | 10 | 38   | M12x24L | 17   | 72   | SW   | 195   | 238   | 150                 | 260   | 14  | 130  | 264   | 30   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   |   |
|       | 80/90B5   | 200 | 130 | 165 | 11 | 4   | 12 | 40 (k6) | 80  | 12 | 43   | M16x32  |      |      | BF   | 149,5 | 246,8 | 180                 | 269   | 14  | 140  | 274,5 | 19,5 | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       |           |     |     |     |    |     |    |         |     |    |      |         |      |      | UNV  | 131   | -     | A1= 156 A2= 210     | 243   | M12 | 106  | 235   | 74   | M10 | 90  | 110 | 7    | 13  | 63  | 57   | 135 | 58  | 20   | 168 |   |
| 40    | 132B5     | 300 | 230 | 265 | 14 | 4   | 21 | 40 (k6) | 80  | 12 | 43   | M16x32  | 16   | 80   | SW   | 205   | 256   | 170                 | 292   | 18  | 140  | 287   | 38   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       | 100/112B5 | 250 | 180 | 215 | 14 | 4   | 19 | 50 (k6) | 100 | 14 | 53,5 | M16x32  |      |      | BF   | 156   | 266   | 225                 | 290   | 18  | 155  | 302   | 28   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       |           |     |     |     |    |     |    |         |     |    |      |         |      |      | UNV  | 141   | -     | A1= 168 A2= 226     | 262   | M16 | 114  | 262   | 81,5 | M12 | 95  | 125 | 10,5 | 16  | 69  | 66   | 143 | 70  | 25   | 190 |   |
| 50    | 160/180B5 | 350 | 250 | 300 | 18 | 5   | 21 | 50 (k6) | 100 | 14 | 53,5 | M16x32  | 18   | 103  | SW   | 260   | 327,7 | 215                 | 366   | 18  | 180  | 357   | 39,5 | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       | 132B5     | 300 | 230 | 265 | 14 | 4   | 19 | 60 (m6) | 120 | 18 | 64   | M20x40  |      |      | BF   | 180   | 336   | 250                 | 372,5 | 18  | 195  | 372   | 24,5 | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       |           |     |     |     |    |     |    |         |     |    |      |         |      |      | UNV  | 181,3 | -     | A1= 216 A2= 290,6   | 336   | M16 | 148  | 313   | 91,5 | M14 | 132 | 155 | 11,5 | 16  | 91  | 83,5 | 170 | 94  | 30   | 250 |   |
| 60    | 225B5     | 450 | 350 | 400 | 18 | 5   | 25 | 60 (m6) | 120 | 18 | 64   | M20x40  | 20   | 120  | SW   | 310   | 393   | 250                 | 430   | 22  | 225  | 428   | 40   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       | 160/180B5 | 350 | 250 | 300 | 18 | 5   | 21 | 70 (m6) | 140 | 20 | 74,5 | M20x40  |      |      | BF   | 165   | 394   | 300                 | 437,5 | 22  | 217  | 421   | 25   | -   | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | - |
|       |           |     |     |     |    |     |    |         |     |    |      |         |      |      | UNV  | 217,6 | -     | A1= 259,2 A2= 348,7 | 405   | M16 | 176  | 381   | 103  | M14 | 154 | 180 | 14   | 18  | 105 | 105  | 185 | 120 | 39   | 295 |   |



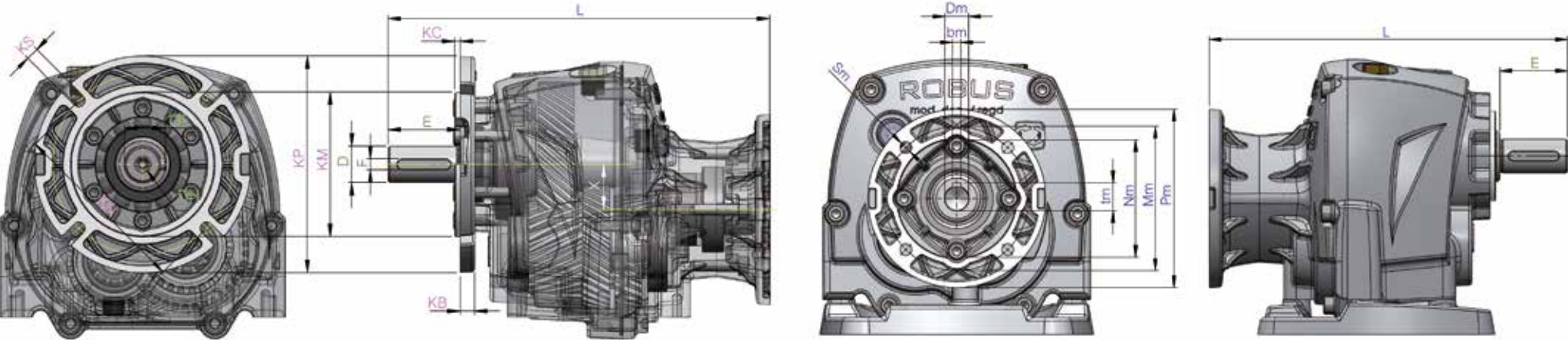
DIMENSIONS



| ROBUS | D       | E  | F | DF | DH      |
|-------|---------|----|---|----|---------|
| A2    | 20 (k6) | 40 | 6 | 23 | M5x12,5 |
|       | 25 (k6) | 50 | 8 | 28 | M10x20L |

| ROBUS | IEC  | KP  | KM | KN  | KS | KC | KB |
|-------|------|-----|----|-----|----|----|----|
| A2    | 56B5 | 120 | 80 | 100 | 7  | 3  | 8  |
|       | 63B5 | 140 | 95 | 115 | 10 | 3  | 9  |

| ROBUS | motor type |     | Nm | Mm  | Pm  | Sm | Dm | tm   | bm | L     |
|-------|------------|-----|----|-----|-----|----|----|------|----|-------|
| A2    | 63         | B14 | 60 | 75  | 90  | M6 | 11 | 12,8 | 4  | 212,5 |
|       | 71         | B14 | 70 | 85  | 105 | M7 | 14 | 16,3 | 5  | 212,5 |
|       | 80         | B14 | 80 | 100 | 120 |    | 19 | 21,8 | 6  | 227,0 |



# DICHIARAZIONE DECLARATION



- [1] **AVVISO DI RICEVIMENTO**  
ACKNOWLEDGEMENT OF RECEIPT
- [2] **Apparecchiature o Sistemi di Protezione** destinati ad essere utilizzati in  
atmosfera potenzialmente esplosiva **Direttiva 2014/34/UE**  
Equipment or Protective System or Component intended for use in potentially explosive  
atmospheres **Directive 2014/34/UE**
- [3] Numero dell'avviso di ricevimento: **TÜV IT 21 ATEX 026 Rev.1**  
Acknowledgement of receipt number:
- [4] **Apparecchiatura o sistema di protezione:**  
Equipment or protective system:
- RIDUTTORE A VITE SENZA FINE Serie BOX WORM GEARBOX Series BOX**  
**RIDUTTORE ORTOGALE Serie ENDURO BEVEL HELICAL GEARBOX Series ENDURO**  
**RIDUTTORE COASSIALE Serie ROBUS IN-LINE HELICAL GEARBOX Series ROBUS**  
**PRE-COPPIA Serie STADIO PRE-STAGE Series STADIO**  
**RIDUTTORE PENDOLARE Serie STON PARALLEL SHAFT GEARBOX Series STON**
- II 2G Ex h IIC T4 Gb**  
**II 2D Ex h IIIC T135°C Db**  
**Tamb = -20 +40°C**
- [5] Identificazione del fascicolo tecnico data dal richiedente:  
Technical file reference given by applicant:
- FASCICOLO TECNICO RIDUTTORI ATEX 2GD FT\_RIDEX2GD (Rev.01 - 11/05/2021)**  
**ATEX 2GD GEARBOXES TECHNICAL FILE FT\_RIDEX2GD (Rev.01 - 11/05/2021)**
- [6] Richiedente / Applicant: **MOTIVE S.r.l.**  
**Via Le Ghiselle 20**  
**IT - 25014 CASTENEDOLO (BS)**
- [7] Costruttore / Manufacturer: **MOTIVE S.r.l.**  
**Via Le Ghiselle 20**  
**IT - 25014 CASTENEDOLO (BS)**
- [8] Il TÜV Italia, organismo notificato n° 0948 in conformità Direttiva 2014/34/UE del  
Consiglio dell'Unione Europea del 26 Febbraio 2014, avvisa il richiedente di aver ricevuto il  
fascicolo tecnico relativo all'apparecchiatura o sistema di protezione sopra citato in  
accordo alla procedura definita all'articolo 13 paragrafo 1-b) della Direttiva 2014/34/UE.  
TUV Italia, notified body n° 0948 in accordance with the Council Directive 2014/34/UE of 26  
February 2014, notifies to the applicant to have received the technical file relates to the  
equipment or protective system above mentioned according to procedure defined to  
Article 13 paragraph 1-b) of the Directive 2014/34/UE.

Data prima emissione / First issue date: 17/03/2021  
Data emissione / Issue date: 20/05/2021  
Data scadenza / Expiry date: 16/03/2031



**TÜV ITALIA Srl**  
Organismo Notificato No. 0948  
Notified Body, No. 0948

Questa dichiarazione può essere riprodotta solo integralmente e senza alcuna variazione.  
This declaration may only be reproduced in its entirety and without any change.

## ROBUS EX SERIES



II 2G Ex h IIC T4 Gb  
II 2D Ex h IIIC T135°C Db  
Tamb = -20 +40°C



ATEX is the conventional name of the Directive 14/34/EC for the equipment intended for use in potentially explosive atmospheres. It imposes the evaluation of the risk for all the equipment operating in such environments. It classifies several levels of "danger" (zones): to every zone it corresponds a different typology of explosive atmosphere, according to its composition and to its probability and time of appearance.

Motive gearboxes series BOX Ex, STADIO Ex, STON Ex, ROBUS Ex and ENDURO Ex are certified according to the norms EN ISO/IEC 80079-36:2016, EN ISO/IEC 80079-37:2016, EN 1127-1:2019 for the zones 1, 21, 2 and 22

## ALSO MOTIVE ITSELF IS ATEX

**Not only its products, but also Motive itself is ATEX**

If you design and manufacture ATEX products, the requirements of a normal ISO9001 Quality System are not sufficient for your organization. You must satisfy also another standard that takes its cue from ISO9001 to add much more, the **ISO/IEC 80079-34 "Explosive atmospheres - Part 34: Application of quality systems for Ex product manufacture"**. It is on the basis of this norm that an accredited certification body (such as the TÜV in our case) must verify whether the manufacturer's quality assurance

| Cat | DUST | GAS | Zone | description                                                                                                                                                                                                                                 | motive gearboxes |
|-----|------|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 2   |      |     | 1    | A place in which an explosive atmosphere consisting of a mixture with air or flammable substances in the form of gas, vapor or mist is likely to occur in normal operation occasionally.                                                    | ✓                |
| 3   |      |     | 2    | A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only. | ✓                |
| 2   |      |     | 21   | A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally.                                                                                             | ✓                |
| 3   |      |     | 22   | A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.                                          | ✓                |

**NOTIFICATION**  
PRODUCT QUALITY ASSURANCE NOTIFICATION

Equipment or Protective System or Component intended for use in potentially explosive atmospheres  
Directive 2014/34/UE

[1] Notification number: **TÜV IT 21 ATEX 021 Q**

[2] Equipment or Component as tested: **Electric Motor, Frequency Converter**

[3] Protection category: **"n" and "r"**

[4] Manufacturer: **MOTIVE S.r.l.**  
**Via Le Ghiselle, 20**  
**I-25014 Castenedolo (BS) - ITALIA**

[5] Site visited: **identical**

[6] TÜV Italia, notified body no. 0948 in accordance with the Council Directive 2014/34/UE of 26 February 2014, notifies that the manufacturer has a product quality assurance system which complies to Annex VB of the Directive.

[7] This notification is based on audit report no. R.21 EX 015 issued on 02.03.2021

[8] This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex VB.

Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is valid until 25.03.2024, and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.

[10] According to Article 16 paragraph 3 of the Directive 2014/34/UE the CE marking shall be followed by the identification no. 0948 identifying the notified body involved in the production control stage.

This notification may only be reproduced in its entirety and without any change.

First issue date: 25.03.2021  
Issue date: 26.03.2021

**ACCREDITA**  
PRD N° 0818

**TÜV Italia S.r.l.**  
Notified Body n° 0948

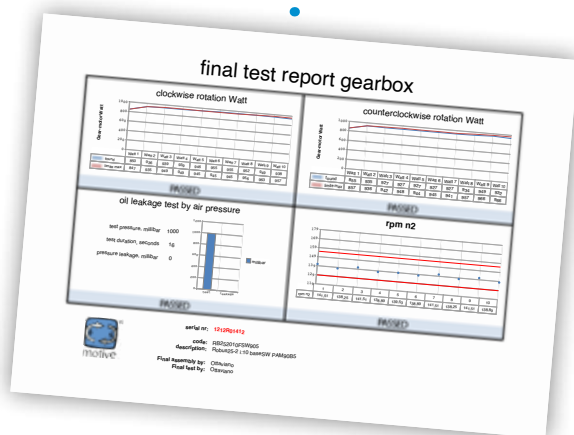
**Industry Service - Real Estate & Infrastructure**  
Managing Director

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system complies with Annex VII of the ATEX Directive. Receiving an ATEX certified product, in fact, does not in itself mean that the manufacturer's organization has done everything to always ensure product and service compliance, even in after-sales. Just to give an example, from a serial number of an Ex motor the manufacturer should be able to trace the batch of each component that is critical for Ex safety (like winding, terminal block, castings of shields, housing, and terminal box, etc.) and, then, the chemical composition of the aluminum or iron castings with which they were made, the mechanical properties of the batch of the terminal block, and so on. Serial number by serial number. Lot by lot. It is a commitment that Motive has managed to standardize on all its products, ATEX and not, through the digitization of all internal processes, and which also adds value to standard products. A guarantee, therefore, that goes well beyond the ISO9001 that Motive already boasted since it was born in 2000, and which demonstrates the excellence of a company set up to give certainty and serenity to the customer.



You can download each motor or gearbox final test report from [www.motive.it](http://www.motive.it), starting from its serial number



## TERMS OF SALE AND GUARANTEE

### ARTICLE 1 - **GUARANTEE**

1.1 Barring written agreements, entered into between the parties hereto each time, Motive hereby guarantees compliance with specific agreements.

The guarantee for defects shall be restricted to product defects following design, materials or manufacturing defects leading back to Motive.

The guarantee shall not include:

- \* Faults or damages ensuing from transport. Faults or damages ensuing from installation defects; incompetent use of the product, or any other unsuitable use.
- \* Tampering or damages ensuing from use by non-authorised staff and/or use of non-original parts and/or spare parts;
- \* Defects and/or damages ensuing from chemical agents and/or atmospheric phenomena (e.g. burnt out material, etc.); routine maintenance and required action or checks;
- \* Products lacking a plate or having a tempered plate.

1.2 Returns to credit or replace will be accepted only in exceptional cases; however returns of goods already used to credit or replace won't be accepted in any case. The guarantee shall be effective for all Motive products, with a term of validity of 12 months, starting from the date of shipment.

The guarantee shall be subject to specific written request for Motive to take action, according to statements, as described at the paragraphs herein below. By virtue of aforesaid approval, and as regards the claim, Motive shall be bound at its discretion, and within a reasonable time-limit, to alternatively take the following actions:

- a) To supply the Buyer with products of the same type and quality as those having proven defective and not complying with agreements, free ex-works; in aforesaid case, Motive shall have the right to request, at Buyer's charge, early return of defective goods, which shall become Motive's property;
- b) To repair, at its charge, the defective product or to modify the product which does not comply with agreements, by performing aforesaid action at its facilities; in aforesaid cases, all costs regarding product transport shall be sustained by the Buyer.
- c) To send spare parts free of charge: all costs regarding product transport shall be sustained by the Buyer.

1.3. The guarantee herein shall assimilate and replace legal guarantees for defects and discrepancies, and shall exclude any other eventual Motive liability, however caused by supplied products; in particular, the Buyer shall have no right to submit any further claims.

Motive shall not be liable for the enforcement of any further claims, as of the date the guarantee's term of validity expires.

### ARTICLE 2 - **CLAIMS**

2.1. Claims, regarding quantity, weight, gross weight and colour, or claims regarding faults and defects in quality or compliance, and which the Buyer may discover on goods delivery, shall be submitted by a max. 7 days of aforesaid discovery, under penalty of nullity.

### ARTICLE 3 - **DELIVERY**

3.1. Any liability for damages ensuing from total or partial delayed or failed delivery, shall be excluded.

3.2. Unless differently communicated by written to the Client, the transport terms have to be intended ex-works.

### ARTICLE 4 - **PAYMENT**

4.1. Any delayed or irregular payments shall entitle Motive to cancel ongoing agreement, including agreements which do not regard the payments at issue, as well as entitling Motive to claim damages, if any.

4.2. The Buyer shall be bound to complete payment, including cases whereby claims or disputes are underway.



**DOWNLOAD  
THE TECHNICAL MANUAL  
FROM WWW.MOTIVE.IT**

ALL DATA HAVE BEEN WRITTEN AND CHECKED  
WITH THE GREATEST CARE.  
WE DO NOT TAKE ANY RESPONSIBILITY  
FOR POSSIBLE ERRORS OR OMISSIONS.  
MOTIVE CAN CHANGE THE  
CHARACTERISTIC OF THE SOLD ITEMS ON  
HIS FIRM OPINION AND IN EVERY MOMENT.



ASK OUR FURTHER CATALOGUES:



LOOKS GOOD, PERFORMS BETTER



ROBUS TECHNICAL CATALOGUE ENG GIU '21 REV.09



**Motive s.r.l.**

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