

**REDSUN**

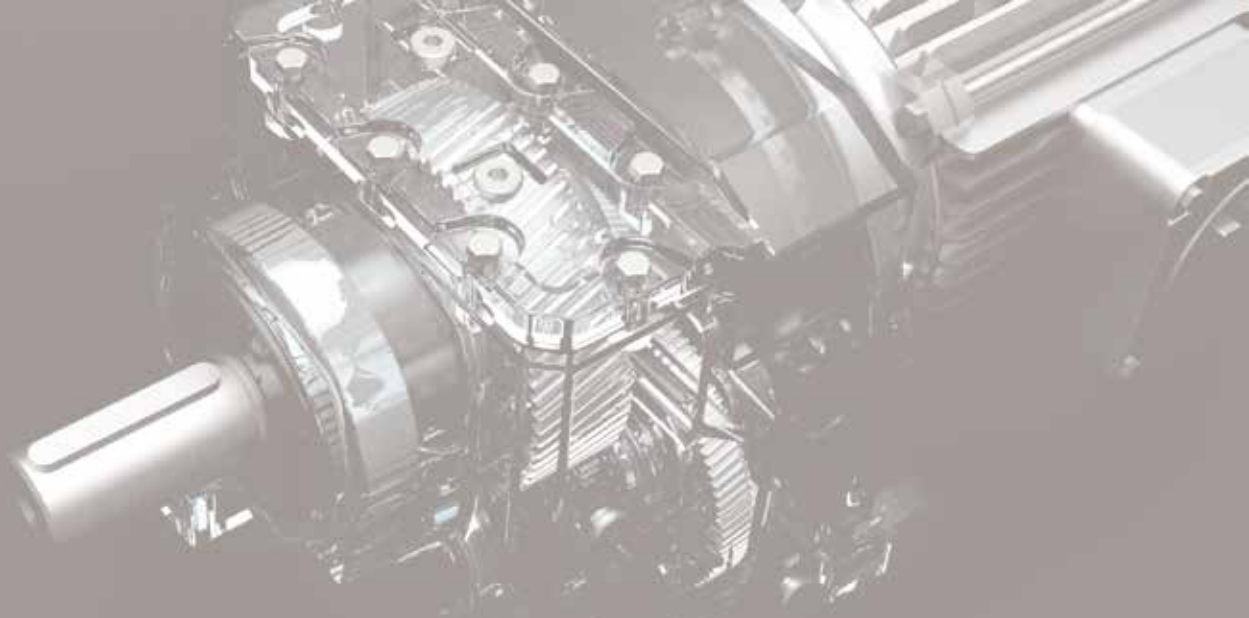


## R Series Helical Gear Units

08 / 2015

# Note!

1. The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. If you need exact dimension of certain types, please contact our sales dept.. (The unmarked dimension units are mm).
2. Gear unit has been tested before delivered, users should add lubrication oil before running.
3. We can only refer to the marked oil in the mannul. Actual oil filling level should be the same with the mark on oil immersion lens.
4. Lubrication oil viscosity should be selected according to working conditions and ambient temperature.
5. To prevent accidents, all the rotation parts should be added with protective covers according to safety regulation of the nation and region.
6. The solid shaft input structure gear unit is not equipped with any motor.
7. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
8. Unless otherwise specified, you will receive the terminal box at 0°.



## Guidelines for the selection

- ❑ Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times, but the practical condition will be not as perfect as the designed circumstance. so we must confirm driven machine factor  $f_1$ , prime mover factor  $f_2$ , starting factor  $f_3$  according to actual load type, operating time, starting frequency. let it less than or equal to the service factor  $f_b$  of selection table, viz  $f_1 \times f_2 \times f_3 \leq f_b$ . the needed torque of service machine multiply the service factor ( $f_1 \times f_2 \times f_3$ ) should less than or equal to gear units' permissible torque.

Viz  $T_N \geq T_2 \times f_1 \times f_2 \times f_3$

$f_1$  — Driven machine factor(See table 1)

$f_2$  — Prime mover factor(See table 2)

$f_3$  — Start factor(See table 3)

$T_2$  — The torque required by driven machine

$T_N$  — Gear unit permissible torque(See page 03)

- ❑ We accept the orders of products of special specification, and provide our customer with exclusive design service.
- ❑ Along with the technology advanced etc., the product of the manual of RED SUN will be changed, please forgive.



Service factor:

| Table 1                               |                                      |        |      | Driven machine factor                 |   |        |      | f <sub>1</sub> |     |        |      |
|---------------------------------------|--------------------------------------|--------|------|---------------------------------------|---|--------|------|----------------|-----|--------|------|
| Driven equipment                      | Daily operating time with load(hour) |        |      | Driven equipment                      | Daily operating time with load(hour)            |        |      |                |     |        |      |
|                                       | ≤ 2                                  | > 2-10 | > 10 |                                       | ≤ 2   | > 2-10 | > 10 |                | ≤ 2 | > 2-10 | > 10 |
| <b>Sewage treatment</b>               |                                      |        |      | <b>Conveying machine</b>              |   |        |      |                |     |        |      |
| Concentrator(Central Transmission)    | —                                    | —      | 1.2  | Bucket conveyor                       | —   | 1.4    | 1.5  |                |     |        |      |
| Compressed filter                     | 1.0                                  | 1.3    | 1.5  | Winch                                 | 1.4   | 1.6    | 1.6  |                |     |        |      |
| Flocculator                           | 0.8                                  | 1.0    | 1.3  | Hoist                                 | —   | 1.5    | 1.8  |                |     |        |      |
| Aerator                               | —                                    | 1.8    | 2.0  | Belt conveyor≤150kW                   | 1.0   | 1.2    | 1.3  |                |     |        |      |
| Collector                             | 1.0                                  | 1.2    | 1.3  | Belt conveyor≥150kW                   | 1.1   | 1.3    | 1.4  |                |     |        |      |
| Vertical,rotary group                 |                                      |        |      | Elevators for goods*                  | —   | 1.2    | 1.5  |                |     |        |      |
| Blended collector                     | 1.0                                  | 1.3    | 1.5  | Elevators for customers*              | —   | 1.5    | 1.8  |                |     |        |      |
| Concentrator                          | —                                    | 1.1    | 1.3  | Scraper conveyor                      | —   | 1.2    | 1.5  |                |     |        |      |
| Screw pump                            | —                                    | 1.3    | 1.5  | Automatic ladder                      | 1.0   | 1.2    | 1.4  |                |     |        |      |
| Water wheel machine                   | —                                    | —      | 2.0  | Rail traveling mechanism              | —   | 1.5    | —    |                |     |        |      |
| Pump                                  |                                      |        |      |                                       |   |        |      |                |     |        |      |
| Centrifugal pump                      | 1.0                                  | 1.2    | 1.3  | <b>Various frequency device</b>       | —   | 1.8    | 2.0  |                |     |        |      |
| Volume-down pump                      |                                      |        |      |                                       |   |        |      |                |     |        |      |
| 1Piston                               | 1.3                                  | 1.4    | 1.8  | <b>Reciprocating compressor</b>       | —   | 1.8    | 1.9  |                |     |        |      |
| >1Piston                              | 1.2                                  | 1.4    | 1.5  |                                       |   |        |      |                |     |        |      |
| <b>Dredge</b>                         |                                      |        |      | <b>Hoisting mechanism**</b>           |   |        |      |                |     |        |      |
| Bucket conveyor                       | —                                    | 1.6    | 1.6  | Rotary mechanism*                     |   | 1.4    | 1.8  |                |     |        |      |
| Unloading device                      | —                                    | 1.3    | 1.5  | Pitching mechanism                    |   | 1.1    | 1.4  |                |     |        |      |
| Carterpillar traveling mechanism      | 1.2                                  | 1.6    | 1.8  | Traveling mechanism                   |   | 1.6    | 2.0  |                |     |        |      |
| Bucket digger                         |                                      |        |      | Lifting mechanism                     |   | 1.1    | 1.4  |                |     |        |      |
| Be used for picking up                | —                                    | 1.7    | 1.7  | Jibcrane                              |   | 1.2    | 1.6  |                |     |        |      |
| Be used for rough materials           | —                                    | 2.2    | 2.2  |                                       |   |        |      |                |     |        |      |
| Chopper                               | —                                    | 2.2    | 2.2  | <b>Cooling tower</b>                  |   |        |      |                |     |        |      |
| Traveling mechanism*                  | —                                    | 1.4    | 1.8  | Cooling tower fan                     | —   | —      | 2.0  |                |     |        |      |
| <b>Plate blender</b>                  | —                                    | 1.0    | 1.0  | Fan (Shaft flow and centrifugal type) | —   | 1.4    | 1.5  |                |     |        |      |
| <b>Chemical industry</b>              |                                      |        |      | <b>Food industry</b>                  |   |        |      |                |     |        |      |
| Extruder                              | —                                    | —      | 1.6  | Sugar production                      |   |        |      |                |     |        |      |
| Paste mixer                           | —                                    | 1.8    | 1.8  | Sugar-cane cutter*                    | —   | —      | 1.7  |                |     |        |      |
| Rubber calendar                       | —                                    | 1.5    | 1.5  | Sugar crane mill                      |   |        |      |                |     |        |      |
| Cooling cylinder                      | —                                    | 1.3    | 1.4  | Beet sugar production                 | —   | —      | 1.7  |                |     |        |      |
| Material mixer,be used for            |                                      |        |      | Beet masher                           | —   | —      | 1.2  |                |     |        |      |
| Uniform medium                        | 1.0                                  | 1.3    | 1.4  | Squeeze machine,                      |   |        |      |                |     |        |      |
| Non-uniform medium                    | 1.4                                  | 1.6    | 1.7  | mechanical refrigerator,              |   |        |      |                |     |        |      |
| Blender,be used for                   |                                      |        |      | cooking machine                       | —   | —      | 1.4  |                |     |        |      |
| Uniform density medium                | 1.0                                  | 1.3    | 1.5  | Beet cleaner                          | —   | —      | 1.5  |                |     |        |      |
| Un-uniformed medium                   | 1.2                                  | 1.4    | 1.6  | Beet chopper                          |   |        |      |                |     |        |      |
| Un-uniformed gas absorption           | 1.4                                  | 1.6    | 1.8  |                                       |   |        |      |                |     |        |      |
| Oven                                  | 1.0                                  | 1.3    | 1.5  | <b>Paper-making machinery</b>         |   |        |      |                |     |        |      |
| Centrifugal machine                   | 1.0                                  | 1.2    | 1.3  | Various kinds***                      | —   | 1.8    | 2.0  |                |     |        |      |
| <b>Metal processing equipment</b>     |                                      |        |      | Pulper driving device                 | Supply goods according to customer requirements |        |      |                |     |        |      |
| Plate turnover                        | 1.0                                  | 1.0    | 1.2  | <b>Centrifugal compressor</b>         | —   | 1.4    | 1.5  |                |     |        |      |
| Steel pushing device                  | 1.0                                  | 1.2    | 1.2  |                                       |   |        |      |                |     |        |      |
| Winding machine                       | —                                    | 1.6    | 1.6  | <b>Rope way cable car</b>             |   |        |      |                |     |        |      |
| Cooling bed transverse frame          | —                                    | 1.5    | 1.5  | Delivery ropeway                      | —   | 1.3    | 1.4  |                |     |        |      |
| Roller leveler                        | —                                    | 1.6    | 1.6  | Cableway of shuttle system            | —   | 1.6    | 1.8  |                |     |        |      |
| Roller path                           |                                      |        |      | T rod elevator                        | —   | 1.3    | 1.4  |                |     |        |      |
| Continuous                            | —                                    | 1.5    | 1.5  | Continuous cableway                   | —   | 1.4    | 1.6  |                |     |        |      |
| Interval                              | —                                    | 2.0    | 2.0  |                                       |   |        |      |                |     |        |      |
| Reversing mill                        | —                                    | 1.8    | 1.8  | <b>Cement industry</b>                |   |        |      |                |     |        |      |
| Cutter                                |                                      |        |      | Concrete blender                      | —   | 1.5    | 1.5  |                |     |        |      |
| Continuous*                           | —                                    | 1.5    | 1.5  | Crusher*                              | —   | 1.2    | 1.4  |                |     |        |      |
| Crank type*                           | 1.0                                  | 1.0    | 1.0  | Rotary kiln                           | —   | —      | 2.0  |                |     |        |      |
| Continuous casting driving device     | —                                    | 1.4    | 1.4  | Tube mill                             | —   | —      | 2.0  |                |     |        |      |
| Rolling mill                          |                                      |        |      | Powder concentrator                   | —   | 1.6    | 1.6  |                |     |        |      |
| Reversing cogging mill                | —                                    | 2.5    | 2.5  | Roller press                          | —   | —      | 2.0  |                |     |        |      |
| Reversing plate slab mill             | —                                    | 2.5    | 2.5  |                                       |   |        |      |                |     |        |      |
| Reversing wire mill                   | —                                    | 1.8    | 1.8  |                                       |   |        |      |                |     |        |      |
| Reversing thin plate mill             | —                                    | 2.0    | 2.0  |                                       |   |        |      |                |     |        |      |
| Reversing middle thickness plate mill | —                                    | 1.8    | 1.8  |                                       |   |        |      |                |     |        |      |
| Roll gap adjusting and driving device | 0.9                                  | 1.0    | —    |                                       |   |        |      |                |     |        |      |





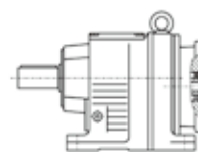
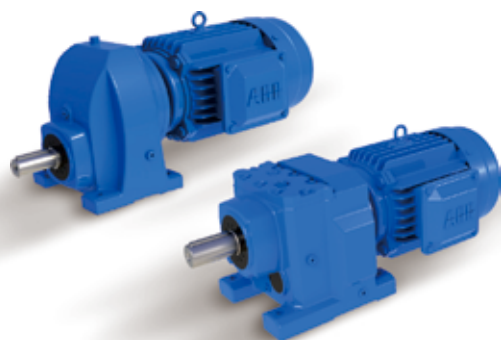
| Table 1                        |                                    |        |      | Driven machine factor                          |                                    |        |      | f1 |
|--------------------------------|------------------------------------|--------|------|--|------------------------------------|--------|------|----|
| Driven equipment               | Daily running time with load(hour) |        |      | Driven equipment                               | Daily running time with load(hour) |        |      |    |
|                                | ≤ 2                                | > 2-10 | > 10 |  | ≤ 2                                | > 2-10 | > 10 |    |
| Wood industry                  |                                    |        |      | Plastics industry                              |                                    |        |      |    |
| Barking machine                |                                    |        |      | Miller, compound grinding                      |                                    |        |      |    |
| Feed drive                     | 1.25                               | 1.25   | 1.50 | Coating, film                                  | 1.25                               | 1.25   | 1.25 |    |
| Main drive                     | 1.75                               | 1.75   | 1.75 | Conveying pipe, Pulling rod, thin type         |                                    |        |      |    |
| Conveyor                       |                                    |        |      | Pipe type, Pile drawer                         | 1.25                               | 1.25   | 1.50 |    |
| Burner,repeating saw           | 1.25                               | 1.25   | 1.50 | Continuous mixer, Calender                     | 1.50                               | 1.50   | 1.50 |    |
| Rotary tower,transit transport | 1.50                               | 1.50   | 1.50 | Blow film, to plasticizing                     |                                    |        |      |    |
| Main loading,heavy loading     | 1.75                               | 1.75   | 2.00 | Batch mixer                                    | 1.75                               | 1.75   | 1.75 |    |
| Main original wood,land base   |                                    |        |      | Rubber industry                                |                                    |        |      |    |
| Conveying chain                |                                    |        |      | Continuous strong inner mixer,Mix roller,      |                                    |        |      |    |
| Floor                          | 1.50                               | 1.50   | 1.50 | Batch feeding mixer (except for double sticks) | 1.50                               | 1.50   | 1.50 |    |
| Green-wood                     | 1.50                               | 1.50   | 1.75 | Refiner, calender                              |                                    |        |      |    |
| Cutting Chain                  |                                    |        |      | Double roller clamp feeding and mixed miller   | 1.25                               | 1.25   | 1.50 |    |
| Saw transmission,traction      | 1.50                               | 1.50   | 1.75 | Batch strong inner mixer,                      |                                    |        |      |    |
| Peeling barrel                 | 1.75                               | 1.75   | 2.00 | Double stick single groove grain stick         | 1.75                               | 1.75   | 1.75 |    |
| Feed drive                     |                                    |        |      | Miller heater, double sticks                   |                                    |        |      |    |
| Edging,wood trimmer            | 1.25                               | 1.25   | 1.50 | Batch feeding mixer                            |                                    |        |      |    |
| Planer feed,assorting table,   |                                    |        |      | Wave stick miller                              | 2.00                               | 2.00   | 2.00 |    |
| Automatic incline lifting      | 1.75                               | 1.75   | 1.75 | Generator and exciter                          | 1.00                               | 1.00   | 1.25 |    |
| Multi-shaft feed,raw wood      |                                    |        |      |  |                                    |        |      |    |
| Transportation and rotation    |                                    |        |      | Hammer crusher                                 | 1.75                               | 1.75   | 2.00 |    |
| Transportation                 |                                    |        |      | Sand miller                                    | 1.25                               | 1.25   | 1.50 |    |
| Charging tray                  |                                    |        |      |  |                                    |        |      |    |
| Plywood lathe drive            | 1.50                               | 1.50   | 1.75 |  |                                    |        |      |    |
| Conveying chain,Lifting        |                                    |        |      |  |                                    |        |      |    |

⚠ Note: Determine required power  $P_2$  of the driven equipment:  
 \*)Determine rated power according to maximum torque.  
 \*\*)It's necessary to check thermal capacity.

### Prime mover factor

| Table 2                                     | Factor for prime mover | $f_2$ |
|---|------------------------|-------|
| Electric motors, hydraulic motors, turbines |                        | 1.0   |
| Piston engines 4-6 cylinders                |                        | 1.25  |
| Piston engines 1-3 cylinders                |                        | 1.5   |

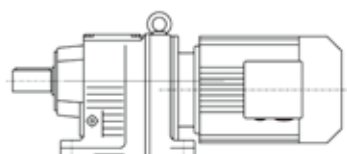
| Table 3         | Start factor     |     |           |        | $f_3$    |
|-----------------|------------------|-----|-----------|--------|----------|
| $f_3$           | $f_1 \times f_2$ | 1   | 1.25-1.75 | 2-2.75 | $\geq 3$ |
| Starts per hour |                  |     |           |        |          |
| $\leq 5$        |                  | 1   | 1         | 1      | 1        |
| 6-25            |                  | 1.2 | 1.12      | 1.06   | 1        |
| 26-60           |                  | 1.3 | 1.2       | 1.12   | 1.06     |
| 61-180          |                  | 1.5 | 1.3       | 1.2    | 1.12     |
| $> 180$         |                  | 1.7 | 1.5       | 1.3    | 1.2      |



R ( RF, RX, RXF ) ...Y...

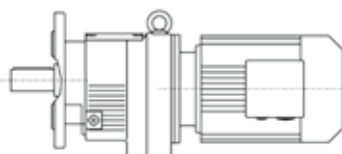
Customers provide the motor by themselves need connected flange

R series gear units are available in the following designs:



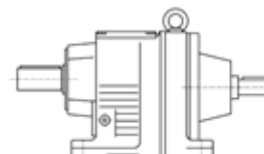
R...Y...

Foot-mounted helical gear units



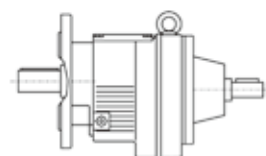
RF...Y...

Flange-mounted helical gear units



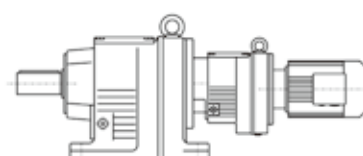
RS...

Foot-mounted helical gear units with solid shaft input



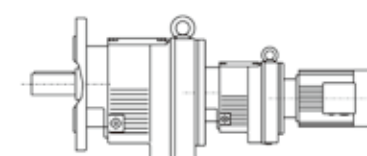
RFS...

Flange-mounted helical gear units with solid shaft input



R...R...Y...

Foot-mounted combi-type helical gear units



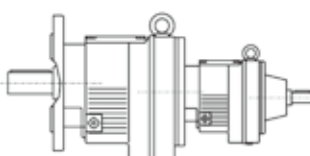
RF...R...Y...

Flange-mounted combi-type helical gear units



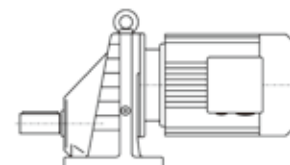
RS...R...

Foot-mounted combi-type helical gear units with solid shaft input



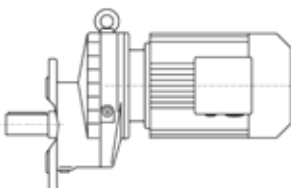
RFS...R...

Flange-mounted combi-type gear units with shaft input



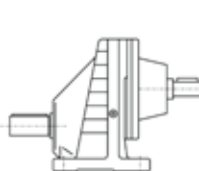
RX...Y...

Foot-mounted single-stage helical gear units



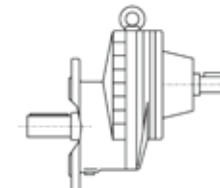
RXF...Y...

Flange-mounted single-stage helical gear units



RXS...

Foot-mounted single-stage helical gear units with solid shaft input



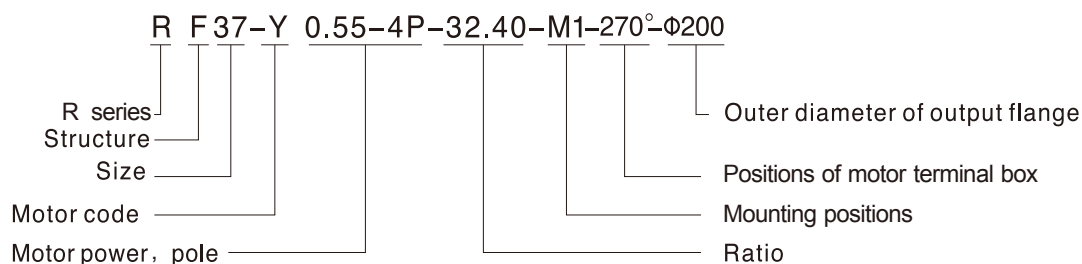
RXFS...

Flange-mounted single-stage helical gear units with solid shaft input

R



## Type Designations:



R series:  
helical gear units

Structure:  
Foot-mounted (-)  
Flange-mounted F  
Foot-mounted with shaft input S  
Flange-mounted with shaft input FS

Size:  
(see selection table)

Motor code:  
Common motor Y(Y2)  
Flameproof motor B  
Direct current motor Z  
Brake motor YEJ  
Multi-speed motor D  
Variable frequency motor YVP  
Electromagnetic variable speed motor YCT  
Metallurgy hoisting motor R  
Transduction braking motor YVPJ  
Roller way G

Motor power, pole:  
See selection table

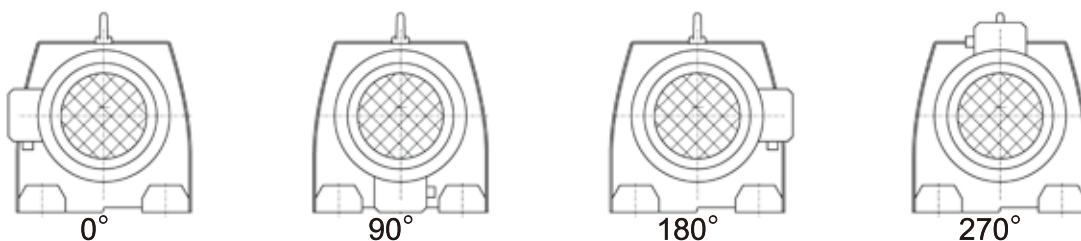
Ratio:  
See selection table

Mounting positions:  
M1, M2, M3, M4, M5, M5.(See page3)

Positions of motor terminal box:  
0°, 90°, 180°, 270°(See page2)

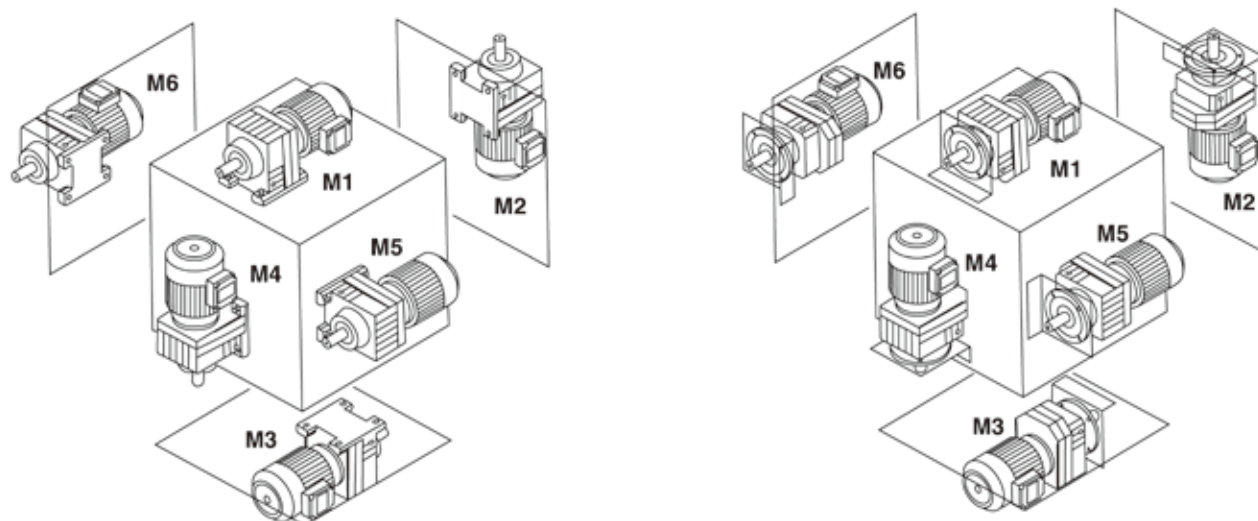
Outer diameter of output flange:  
See the chart of mounting dimension (It will be omitted when foot mounting)

Positions of motor terminal box:





## Mounting positions



## Input power rating and permissible torque

| Size                     | 17         | 27          | 37          | 47          | 57          | 67          | 77          | 87          | 97          | 107         | 137         | 147         | 167          |
|--------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Structure                | R          |             |             |             |             |             | RF          |             |             |             |             |             |              |
| Input power rating (kW)  | 0.18~0.75  | 0.18~3      | 0.18~3      | 0.18~5.5    | 0.18~7.5    | 0.18~7.5    | 0.18~11     | 0.55~22     | 0.55~30     | 2.2~45      | 5.5~55      | 11~90       | 11~160       |
| Ratio                    | 3.83~74.84 | 3.37~135.09 | 3.33~134.82 | 3.83~176.88 | 4.39~186.89 | 4.29~199.81 | 5.21~195.24 | 5.36~246.54 | 4.49~289.74 | 5.06~249.16 | 5.15~222.60 | 5.00~163.31 | 10.24~229.71 |
| Permissible torque (N·m) | 85         | 130         | 200         | 300         | 450         | 600         | 820         | 1550        | 3000        | 4300        | 8000        | 13000       | 18000        |

| Size                     | 37        | 57       | 67       | 77        | 87        | 97        | 107       | 127      | 157      |
|--------------------------|-----------|----------|----------|-----------|-----------|-----------|-----------|----------|----------|
| Structure                | RX        |          |          |           | RXF       |           |           |          |          |
| Input power rating (kW)  | 0.18~1.1  | 0.18~5.5 | 0.18~7.5 | 1.1~11    | 3~22      | 5.5~30    | 7.5~45    | 7.5~90   | 11~132   |
| Ratio                    | 1.62~4.43 | 1.3~5.5  | 1.4~6.07 | 1.42~8.00 | 1.39~8.65 | 1.42~8.23 | 1.44~6.63 | 1.51~6.2 | 1.57~6.2 |
| Permissible torque (N·m) | 20        | 70       | 135      | 215       | 400       | 600       | 830       | 1110     | 1680     |

## Gear unit weight

| Size           | R17  | R27  | R37  | R47  | R57  | R67  | R77   | R87   | R97   | R107 | R137 | R147 | R167 |
|----------------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|
| Weight (kgs)   | 4    | 5.5  | 8.5  | 10   | 18   | 25   | 36    | 63    | 101   | 153  | 220  | 400  | 700  |
| Gear unit type | RX37 | RX57 | RX67 | RX77 | RX87 | RX97 | RX107 | RX127 | RX157 |      |      |      |      |
| Weight (kgs)   | 5    | 8    | 14   | 23   | 39   | 70   | 100   | 150   | 250   |      |      |      |      |

The marked weight is average value, it has no constraint force.



Oil

| Size | Oil level(L)     |                  |      |      |      |      |
|------|------------------|------------------|------|------|------|------|
|      | M1 <sup>1)</sup> | M2 <sup>1)</sup> | M3   | M4   | M5   | M6   |
| R17  | 0.25             | 0.6              | 0.35 | 0.6  | 0.35 | 0.35 |
| R27  | 0.25/0.4         | 0.7              | 0.4  | 0.7  | 0.4  | 0.4  |
| R37  | 0.3/1            | 0.9              | 1    | 1.1  | 0.8  | 1    |
| R47  | 0.7/1.5          | 1.6              | 1.5  | 1.7  | 1.5  | 1.5  |
| R57  | 0.8/1.7          | 1.9              | 1.7  | 2.1  | 1.7  | 1.7  |
| R67  | 1.1/2.3          | 2.6/3.5          | 2.8  | 3.2  | 1.8  | 2    |
| R77  | 1.2/3            | 3.8/4.3          | 3.6  | 4.3  | 2.5  | 3.4  |
| R87  | 2.3/6            | 6.7/8.4          | 7.2  | 7.7  | 6.3  | 6.5  |
| R97  | 4.6/9.8          | 11.7/14          | 11.7 | 13.4 | 11.3 | 11.7 |
| R107 | 6/13.7           | 16.3             | 16.9 | 19.2 | 13.2 | 15.9 |
| R137 | 10/25            | 28               | 29.5 | 31.5 | 25   | 25   |
| R147 | 15.4/40          | 46.5             | 48   | 52   | 39.5 | 41   |
| R167 | 27/70            | 82               | 78   | 88   | 66   | 69   |

| Size  | Oil level(L)     |                  |      |      |      |      |
|-------|------------------|------------------|------|------|------|------|
|       | M1 <sup>1)</sup> | M2 <sup>1)</sup> | M3   | M4   | M5   | M6   |
| RF17  | 0.25             | 0.6              | 0.35 | 0.6  | 0.35 | 0.35 |
| RF27  | 0.25/0.4         | 0.7              | 0.4  | 0.7  | 0.4  | 0.4  |
| RF37  | 0.4/1            | 0.9              | 1    | 1.1  | 0.8  | 1    |
| RF47  | 0.75/1.5         | 1.6              | 1.5  | 1.7  | 1.5  | 1.5  |
| RF57  | 0.8/1.7          | 1.8              | 1.7  | 2    | 1.7  | 1.7  |
| RF67  | 1.2/2.5          | 2.7/3.6          | 2.7  | 3.1  | 1.9  | 2.1  |
| RF77  | 1.2/2.6          | 3.8/4.1          | 3.3  | 4.1  | 2.4  | 3    |
| RF87  | 2.4/6            | 6.8/7.9          | 7.1  | 7.7  | 6.3  | 6.4  |
| RF97  | 5.1/10.2         | 11.9/14          | 11.2 | 14   | 11.2 | 11.8 |
| RF107 | 6.3/14.9         | 15.9             | 17   | 19.2 | 13.1 | 15.9 |
| RF137 | 9.5/25           | 27               | 29   | 32.5 | 25   | 25   |
| RF147 | 16.4/42          | 47               | 48   | 52   | 42   | 42   |
| RF167 | 26/70            | 82               | 78   | 88   | 65   | 71   |

| Size         | Oil level(L) |           |           |           |           |           |
|--------------|--------------|-----------|-----------|-----------|-----------|-----------|
|              | M1           | M2        | M3        | M4        | M5        | M6        |
| RX37/RXF37   | 0.45/0.4     | 0.6       | 1.1/0.9   | 1.1/0.9   | 0.7/0.6   | 0.7/0.6   |
| RX57/RXF57   | 0.6/0.5      | 0.8       | 1.3/1.1   | 1.3/1.1   | 0.9/0.7   | 0.9/0.7   |
| RX67/RXF67   | 0.8/0.7      | 0.8       | 1.7/1.5   | 1.9/1.7   | 1.1/1     | 1.1/1     |
| RX77/RXF77   | 1.1/0.9      | 1.5       | 2.6/2.4   | 2.7/2.5   | 1.6       | 1.6       |
| RX87/RXF87   | 1.7/1.6      | 2.5       | 4.8/4.9   | 4.8/4.7   | 2.9       | 2.9       |
| RX97/RXF97   | 2.1          | 3.4/3.6   | 7.4/7.1   | 7         | 4.8       | 4.8       |
| RX107/RXF107 | 3.9/3.1      | 5.6/5.9   | 11.6/11.2 | 11.9/10.5 | 7.7/7.2   | 7.7/7.2   |
| RX127/RXF127 | 5.6/5.9      | 11.6/11.2 | 21.9/20.5 | 22.7/22.2 | 9.7/9.2   | 9.7/9.2   |
| RX157/RXF157 | 11.6/11.2    | 21.9/20.5 | 31.3/30.5 | 32.7/32.2 | 13.2/12.7 | 13.2/12.7 |

Note: Combi-type gear units must be filled with the larger oil volume.



| Output speed | Output torque | Ratio | Service factor | Type                 | Pole   | Output speed | Output torque | Ratio  | Service factor | Type               | Pole |      |
|--------------|---------------|-------|----------------|----------------------|--------|--------------|---------------|--------|----------------|--------------------|------|------|
| r/min        | Nm            | i     | f <sub>B</sub> | Type                 | p      | r/min        | Nm            | i      | f <sub>B</sub> | Type               | p    |      |
| 0.18kW       |               |       |                |                      |        | 0.18kW       |               |        |                |                    |      |      |
| 0.16         | 9293          | 8443  | 1.31           | R 147R77<br>RF147R77 | 4      | 1.6          | 944           | 858    | 0.82           | R 77R37<br>RF77R37 | 4    |      |
| 0.19         | 8042          | 7307  | 1.52           |                      |        | 1.7          | 904           | 821    | 0.85           |                    |      |      |
| 0.22         | 7096          | 6447  | 1.72           |                      |        | 1.8          | 833           | 757    | 0.93           |                    |      |      |
| 0.25         | 6128          | 5568  | 1.99           |                      |        | 1.9          | 803           | 730    | 0.96           |                    |      |      |
| 0.29         | 5300          | 4815  | 2.31           |                      |        | 2.1          | 739           | 671    | 1.04           |                    |      |      |
| 0.32         | 4760          | 4325  | 2.57           |                      |        | 2.2          | 711           | 646    | 1.08           |                    |      |      |
| 0.38         | 4038          | 3669  | 3.03           |                      |        | 2.4          | 628           | 571    | 1.23           |                    |      |      |
| 0.43         | 3553          | 3228  | 3.44           |                      |        | 2.5          | 602           | 547    | 1.28           |                    |      |      |
| 0.16         | 9668          | 8784  | 0.8            | R 137R77<br>RF137R77 | 4      | 2.9          | 525           | 477    | 1.47           | R 67R37<br>RF67R37 | 4    |      |
|              | 0.19          | 8232  | 7479           |                      |        | 0.91         | 3.3           | 469    | 426            |                    |      | 1.64 |
|              | 0.22          | 7057  | 6412           |                      |        | 1.07         | 3.8           | 402    | 365            |                    |      | 1.92 |
|              | 0.24          | 6421  | 5834           |                      |        | 1.17         | 4.5           | 341    | 310            |                    |      | 2.26 |
|              | 0.28          | 5504  | 5001           |                      |        | 1.37         | 2.4           | 628    | 571            |                    |      | 0.90 |
|              | 0.30          | 5183  | 4709           |                      |        | 1.45         | 2.5           | 617    | 561            |                    |      | 0.91 |
|              | 0.32          | 4803  | 4364           |                      |        | 1.57         | 2.9           | 532    | 483            |                    |      | 1.06 |
|              | 0.35          | 4323  | 3928           |                      |        | 1.74         | 3.2           | 482    | 438            |                    |      | 1.17 |
|              | 0.40          | 3868  | 3514           |                      |        | 1.94         | 3.6           | 427    | 388            |                    |      | 1.32 |
|              | 0.42          | 3674  | 3338           |                      |        | 2.05         | 4.1           | 370    | 336            |                    |      | 1.53 |
| 0.47         | 3224          | 2929  | 2.33           | 4.8                  | 316    | 287          | 1.79          |        |                |                    |      |      |
| 0.31         | 4881          | 4435  | 0.83           | R 107R77<br>RF107R77 | 4      | 5.5          | 281           | 255    | 2.01           | R 57R37<br>RF57R37 | 4    |      |
|              | 0.36          | 4260  | 3870           |                      |        | 0.95         | 3.0           | 518    | 471            |                    |      | 0.82 |
|              | 0.42          | 3634  | 3302           |                      |        | 1.11         | 3.1           | 488    | 443            |                    |      | 0.87 |
|              | 0.46          | 3299  | 2997           |                      |        | 1.23         | 3.4           | 451    | 410            |                    |      | 0.94 |
|              | 0.53          | 2885  | 2621           |                      |        | 1.40         | 3.9           | 395    | 359            |                    |      | 1.07 |
|              | 0.62          | 2479  | 2252           |                      |        | 1.63         | 4.3           | 357    | 324            |                    |      | 1.19 |
|              | 0.68          | 2246  | 2041           |                      |        | 1.80         | 4.4           | 351    | 319            |                    |      | 1.20 |
|              | 0.71          | 2169  | 1971           |                      |        | 1.86         | 4.8           | 319    | 290            |                    |      | 1.33 |
|              | 0.77          | 1995  | 1813           |                      |        | 2.03         | 5.2           | 294    | 267            |                    |      | 1.44 |
|              | 0.88          | 1747  | 1587           |                      |        | 2.31         | 5.3           | 288    | 262            |                    |      | 1.47 |
| 0.51         | 2996          | 2722  | 0.94           | R 97R57<br>RF97R57   | 4      | 5.7          | 271           | 246    | 1.56           | R 37R17<br>RF37R17 | 4    |      |
|              | 0.52          | 2937  | 2668           |                      |        | 0.96         | 5.8           | 265    | 241            |                    |      | 1.59 |
|              | 0.60          | 2544  | 2311           |                      |        | 1.11         | 6.3           | 242    | 220            |                    |      | 1.75 |
|              | 0.62          | 2471  | 2245           |                      |        | 1.14         | 6.5           | 237    | 215            |                    |      | 1.79 |
|              | 0.67          | 2287  | 2078           |                      |        | 1.23         | 7.4           | 207    | 188            |                    |      | 2.04 |
|              | 0.69          | 2219  | 2016           |                      |        | 1.27         | 8.7           | 175    | 159            |                    |      | 2.42 |
|              | 0.80          | 1907  | 1733           |                      |        | 1.48         | 4.6           | 331    | 301            |                    |      | 0.85 |
|              | 0.86          | 1786  | 1623           |                      |        | 1.58         | 5.5           | 281    | 255            |                    |      | 1.00 |
|              | 0.97          | 1578  | 1434           |                      |        | 1.79         | 6.1           | 251    | 228            |                    |      | 1.12 |
|              | 1.2           | 1328  | 1207           |                      |        | 2.12         | 7.1           | 215    | 195            |                    |      | 1.31 |
| 0.79         | 1912          | 1737  | 0.8            | R 87R57<br>RF87R57   | 4      | 6.2          | 249           | 226    | 0.8            | R 27R17<br>RF27R17 | 4    |      |
|              | 0.80          | 1907  | 1733           |                      |        | 0.85         | 6.9           | 222    | 202            |                    |      | 0.85 |
|              | 0.91          | 1677  | 1524           |                      |        | 0.87         | 7.0           | 219    | 199            |                    |      | 0.86 |
|              | 0.93          | 1639  | 1489           |                      |        | 0.89         | 7.8           | 197    | 179            |                    |      | 0.95 |
|              | 1.0           | 1535  | 1395           |                      |        | 0.95         | 8.9           | 173    | 157            |                    |      | 1.09 |
|              | 1.1           | 1356  | 1232           |                      |        | 1.07         | 9.1           | 172    | 156            |                    |      | 1.11 |
|              | 1.2           | 1260  | 1145           |                      |        | 1.16         | 9.3           | 165    | 150            |                    |      | 1.14 |
|              | 1.3           | 1141  | 1037           |                      |        | 1.28         | 9.9           | 155    | 141            |                    |      | 0.8  |
|              | 1.5           | 1025  | 931            |                      |        | 1.42         | 10            | 149    | 135            |                    |      | 0.82 |
|              | 1.6           | 972   | 883            |                      |        | 1.50         | 11            | 136    | 124            |                    |      | 0.90 |
| 0.80         | 883           | 802   | 1.65           | R 77<br>RF77         | 6      | 12           | 130           | 118    | 0.94           |                    |      |      |
|              | 852           | 774   | 1.71           |                      |        | 13           | 121           | 110    | 1.01           |                    |      |      |
|              |               |       |                |                      |        | 14           | 114           | 104    | 1.07           |                    |      |      |
|              |               |       |                |                      |        | 15           | 103           | 94     | 1.18           |                    |      |      |
|              |               |       |                |                      |        | 4.4          | 371           | 195.24 | 2.1            |                    |      |      |
|              |               |       |                |                      |        | 5.1          | 317           | 166.59 | 2.4            |                    |      |      |
|              |               |       | 5.8            | 277                  | 145.67 | 2.8          | R 77<br>RF77  | 6      |                |                    |      |      |
|              |               |       | 6.1            | 263                  | 138.39 | 2.9          |               |        |                |                    |      |      |
|              |               |       | 7.0            | 231                  | 121.42 | 3.3          |               |        |                |                    |      |      |

R



R

| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------|-----------|-----------------------|---------------------|------------|-------------------------|----------------|-----------|
| <b>0.18kW</b>         |                     |            |                         |              |           | <b>0.18kW</b>         |                     |            |                         |                |           |
| 7.1                   | 227                 | 195.24     | 3.4                     | R 77<br>RF77 | 4         | 11                    | 144                 | 123.91     | 0.85                    | R 27<br>RF27   | 4         |
| 8.3                   | 194                 | 166.59     | 4.0                     |              | 4         | 13                    | 123                 | 105.49     | 1.00                    |                | 4         |
| 9.5                   | 169                 | 145.67     | 4.6                     |              | 4         | 15                    | 106                 | 90.96      | 1.16                    |                | 4         |
| 10                    | 161                 | 138.39     | 4.8                     |              | 4         | 16                    | 99                  | 84.78      | 1.24                    |                | 4         |
| 4.3                   | 380                 | 199.81     | 1.48                    | R 67<br>RF67 | 6         | 19                    | 86                  | 74.11      | 1.42                    |                | 4         |
| 4.6                   | 350                 | 184.07     | 1.61                    |              | 6         | 20                    | 81                  | 69.47      | 1.51                    |                | 4         |
| 5.4                   | 301                 | 158.14     | 1.88                    |              | 6         | 23                    | 71                  | 61.30      | 1.71                    |                | 4         |
| 6.2                   | 262                 | 137.67     | 2.2                     |              | 6         | 25                    | 65                  | 55.87      | 1.88                    |                | 4         |
| 6.6                   | 245                 | 128.97     | 2.3                     |              | 6         | 29                    | 56                  | 48.17      | 2.2                     |                | 4         |
| 7.5                   | 217                 | 113.94     | 2.6                     |              | 6         | 31                    | 52                  | 44.90      | 2.3                     |                | 4         |
| 8.0                   | 201                 | 105.83     | 2.8                     |              | 6         | 35                    | 46                  | 39.25      | 2.7                     |                | 4         |
| 8.9                   | 182                 | 95.91      | 3.1                     |              | 6         | 38                    | 44                  | 36.79      | 2.8                     |                | 4         |
| 9.9                   | 164                 | 86.11      | 3.4                     | R 67<br>RF67 | 4         | 43                    | 39                  | 32.47      | 3.2                     |                | 4         |
| 11                    | 141                 | 74.17      | 4.0                     |              | 4         | 48                    | 35                  | 28.78      | 3.5                     |                | 4         |
| 12                    | 133                 | 69.75      | 4.3                     |              | 4         | 49                    | 34                  | 28.37      | 3.6                     |                | 4         |
| 7.0                   | 232                 | 199.81     | 2.4                     |              | 4         | 53                    | 31                  | 26.09      | 3.9                     |                | 4         |
| 7.6                   | 214                 | 184.07     | 2.6                     |              | 4         | 57                    | 29                  | 24.47      | 4.2                     |                | 4         |
| 8.8                   | 184                 | 158.14     | 3.1                     |              | 4         | 62                    | 26                  | 22.32      | 4.6                     |                | 4         |
| 10                    | 160                 | 137.67     | 3.5                     | R 67<br>RF67 | 4         | 72                    | 23                  | 19.35      | 5.3                     | R 17<br>RF17   | 6         |
| 11                    | 150                 | 128.97     | 3.8                     |              | 4         | 77                    | 21                  | 18.08      | 5.7                     |                | 6         |
| 12                    | 132                 | 113.94     | 4.3                     |              | 4         | 89                    | 19                  | 15.63      | 6.6                     |                | 6         |
| 13                    | 123                 | 105.83     | 4.6                     |              | 4         | 105                   | 16                  | 13.28      | 7.8                     | R 17<br>RF17   | 6         |
| 4.5                   | 355                 | 186.89     | 1.19                    | R 57<br>RF57 | 6         | 37                    | 45                  | 23.13      | 1.78                    |                | 6         |
| 4.9                   | 327                 | 172.17     | 1.29                    |              | 6         | 40                    | 41                  | 21.22      | 1.94                    |                | 6         |
| 5.7                   | 281                 | 147.92     | 1.50                    |              | 6         | 47                    | 35                  | 18.06      | 2.28                    |                | 6         |
| 6.6                   | 245                 | 128.77     | 1.73                    |              | 6         | 19                    | 87                  | 74.84      | 0.92                    |                | 4         |
| 7.0                   | 229                 | 120.63     | 1.84                    | R 57<br>RF57 | 4         | 22                    | 75                  | 64.52      | 1.07                    |                | 4         |
| 7.4                   | 217                 | 186.89     | 1.95                    |              | 4         | 23                    | 70                  | 60.14      | 1.14                    |                | 4         |
| 8.1                   | 200                 | 172.17     | 2.1                     |              | 4         | 26                    | 61                  | 52.57      | 1.31                    |                | 4         |
| 9.4                   | 172                 | 147.92     | 2.5                     |              | 4         | 28                    | 57                  | 49.28      | 1.39                    |                | 4         |
| 11                    | 150                 | 128.77     | 2.8                     |              | 4         | 32                    | 51                  | 43.49      | 1.58                    |                | 4         |
| 12                    | 140                 | 120.63     | 3.0                     |              | 4         | 34                    | 47                  | 40.49      | 1.70                    |                | 4         |
| 13                    | 124                 | 106.58     | 3.4                     |              | 4         | 39                    | 41                  | 35.40      | 1.94                    |                | 4         |
| 14                    | 115                 | 98.99      | 3.7                     | R 47<br>RF47 | 4         | 42                    | 39                  | 33.18      | 2.07                    |                | 4         |
| 15                    | 104                 | 89.71      | 4.1                     |              | 4         | 47                    | 34                  | 29.28      | 2.3                     |                | 4         |
| 7.9                   | 206                 | 176.88     | 1.37                    |              | 4         | 54                    | 30                  | 25.96      | 2.6                     |                | 4         |
| 8.5                   | 189                 | 162.94     | 1.49                    |              | 4         | 60                    | 27                  | 23.13      | 2.9                     |                | 4         |
| 9.9                   | 163                 | 139.99     | 1.73                    |              | 4         | 63                    | 26                  | 22.06      | 3.1                     |                | 4         |
| 11                    | 142                 | 121.87     | 1.99                    | R 47<br>RF47 | 4         | 66                    | 25                  | 21.22      | 3.2                     |                | 4         |
| 12                    | 133                 | 114.17     | 2.1                     |              | 4         | 77                    | 21                  | 18.06      | 3.7                     | R 17<br>RF17   | 4         |
| 14                    | 117                 | 100.86     | 2.4                     |              | 4         | 89                    | 18                  | 15.57      | 4.3                     |                | 4         |
| 15                    | 109                 | 93.68      | 2.6                     |              | 4         | 96                    | 17                  | 14.52      | 4.6                     |                | 4         |
| 16                    | 99                  | 84.90      | 2.9                     |              | 4         | 110                   | 15                  | 12.69      | 5.3                     |                | 4         |
| 18                    | 89                  | 76.23      | 3.2                     |              | 4         | 117                   | 14                  | 11.89      | 5.7                     |                | 4         |
| 6.9                   | 235                 | 123.66     | 0.80                    | R 37<br>RF37 | 6         | 132                   | 12                  | 10.5       | 5.9                     |                | 4         |
| 8.1                   | 200                 | 105.28     | 0.94                    |              | 6         | 149                   | 11                  | 9.31       | 6.1                     |                | 4         |
| 9.4                   | 173                 | 90.77      | 1.09                    |              | 6         | 176                   | 10                  | 7.91       | 6.2                     |                | 4         |
| 10                    | 161                 | 84.61      | 1.17                    |              | 6         | 184                   | 9                   | 7.55       | 6.5                     |                | 4         |
| 10                    | 157                 | 134.82     | 1.20                    | R 37<br>RF37 | 4         | 197                   | 8                   | 7.04       | 7.0                     |                | 4         |
| 11                    | 144                 | 123.66     | 1.31                    |              | 4         | 226                   | 7.5                 | 6.15       | 7.2                     |                | 4         |
| 13                    | 122                 | 105.28     | 1.54                    |              | 4         | 241                   | 7                   | 5.76       | 7.3                     |                | 4         |
| 15                    | 106                 | 90.77      | 1.78                    |              | 4         | 273                   | 6                   | 5.09       | 7.9                     |                | 4         |
| 16                    | 98                  | 84.61      | 1.91                    |              | 4         | 308                   | 5                   | 4.51       | 8.4                     |                | 4         |
| 19                    | 86                  | 73.96      | 2.2                     |              | 4         | 363                   | 4.5                 | 3.83       | 10                      |                | 4         |
| 20                    | 81                  | 69.33      | 2.3                     |              | 4         | 140                   | 12                  | 6.07       | 3.4                     | RX 67<br>RXF67 | 6         |
| 23                    | 71                  | 61.18      | 2.6                     |              | 4         | 164                   | 10                  | 5.18       | 6.9                     |                | 6         |
| 25                    | 65                  | 55.76      | 2.9                     |              | 4         | 188                   | 9.0                 | 4.53       | 8.6                     |                | 6         |
| 29                    | 56                  | 48.08      | 3.1                     |              | 4         | 198                   | 8.5                 | 4.30       | 8.8                     |                | 6         |



| Output speed | Output torque | Ratio | Service factor | Type                 | Pole | Output speed         | Output torque | Ratio | Service factor | Type               | Pole |
|--------------|---------------|-------|----------------|----------------------|------|----------------------|---------------|-------|----------------|--------------------|------|
| r/min        | Nm            | i     | f <sub>B</sub> | Type                 | p    | r/min                | Nm            | i     | f <sub>B</sub> | Type               | p    |
| 0.18kW       |               |       |                |                      |      | 0.25kW               |               |       |                |                    |      |
| 229          | 7.4           | 6.07  | 5.5            | RX 67<br>RXF67       | 4    | 0.69                 | 3082          | 2016  | 0.92           | R 97R57<br>RF97R57 | 4    |
| 268          | 6.3           | 5.18  | 11             |                      |      | 0.76                 | 2787          | 1823  | 1.01           |                    |      |
| 307          | 5.5           | 4.53  | 13             |                      |      | 0.80                 | 2649          | 1733  | 1.06           |                    |      |
| 323          | 5.2           | 4.30  | 14             |                      |      | 0.86                 | 2481          | 1623  | 1.14           |                    |      |
| 369          | 4.6           | 3.77  | 18             |                      |      | 0.88                 | 2420          | 1583  | 1.17           |                    |      |
| 434          | 3.9           | 3.20  | 24             |                      |      | 1.0                  | 2134          | 1396  | 1.32           |                    |      |
| 481          | 3.5           | 2.89  | 28             |                      |      | 1.1                  | 1877          | 1228  | 1.50           |                    |      |
| 547          | 3.1           | 2.54  | 36             |                      |      | 1.3                  | 1633          | 1068  | 1.73           |                    |      |
| 579          | 2.9           | 2.40  | 40             |                      |      | 1.5                  | 1432          | 937   | 1.97           |                    |      |
| 681          | 2.5           | 2.04  | 51             |                      |      | 1.7                  | 1260          | 824   | 2.2            |                    |      |
| 155          | 11            | 5.50  | 3.36           | RX 57<br>RXF57       | 6    | 1.9                  | 1127          | 737   | 2.5            |                    |      |
| 168          | 10            | 5.07  | 3.37           |                      |      | 2.2                  | 965           | 631   | 2.9            |                    |      |
| 195          | 8.6           | 4.35  | 7.4            |                      |      | 1.2                  | 1750          | 1145  | 0.83           |                    |      |
| 224          | 7.5           | 3.79  | 8.5            |                      |      | 1.3                  | 1585          | 1037  | 0.92           |                    |      |
| 253          | 6.7           | 5.50  | 5.50           | RX 57<br>RXF57       | 4    | 1.5                  | 1423          | 931   | 1.02           |                    |      |
| 274          | 6.1           | 5.07  | 5.51           |                      |      | 1.6                  | 1350          | 883   | 1.08           |                    |      |
| 320          | 5.3           | 4.35  | 12             |                      |      | 1.7                  | 1226          | 802   | 1.19           |                    |      |
| 367          | 4.6           | 3.79  | 14             |                      |      | 1.8                  | 1183          | 774   | 1.23           |                    |      |
| 392          | 4.3           | 3.55  | 15             |                      |      | 2.0                  | 1044          | 683   | 1.40           |                    |      |
| 443          | 3.8           | 3.14  | 16             |                      |      | 2.3                  | 916           | 599   | 1.59           |                    |      |
| 478          | 3.5           | 2.91  | 18             |                      |      | 2.6                  | 803           | 525   | 1.82           |                    |      |
| 527          | 3.2           | 2.64  | 20             |                      |      | 3.1                  | 694           | 454   | 2.1            |                    |      |
| 586          | 2.9           | 2.37  | 23             |                      |      | 5.2                  | 408           | 267   | 3.6            |                    |      |
| 681          | 2.5           | 2.04  | 26             |                      |      | 2.4                  | 873           | 571   | 0.88           |                    |      |
| 724          | 2.3           | 1.92  | 28             | 2.5                  | 836  | 547                  | 0.92          |       |                |                    |      |
| 842          | 2.0           | 1.65  | 32             | 2.9                  | 729  | 477                  | 1.06          |       |                |                    |      |
| 426          | 4             | 3.26  | 3.80           | RX 37<br>RXF37       | 4    | 3.3                  | 651           | 426   | 1.18           |                    |      |
| 527          | 3             | 2.64  | 4.69           |                      |      | 3.8                  | 556           | 364   | 1.39           |                    |      |
| 0.25kW       |               |       |                |                      |      | 4.5                  | 477           | 312   | 1.62           |                    |      |
| 0.14         | 14894         | 9743  | 0.82           |                      |      | R 147R77<br>RF147R77 | 4             | 4.6   | 474            | 310                | 1.63 |
| 0.16         | 12907         | 8443  | 0.95           | 5.6                  | 379  |                      |               | 248   | 2.03           |                    |      |
| 0.19         | 11170         | 7307  | 1.09           | 6.3                  | 335  |                      |               | 219   | 2.3            |                    |      |
| 0.22         | 9855          | 6447  | 1.24           | 3.6                  | 593  |                      |               | 388   | 0.95           |                    |      |
| 0.25         | 8512          | 5568  | 1.44           | 3.9                  | 549  |                      |               | 359   | 1.03           |                    |      |
| 0.29         | 7361          | 4815  | 1.66           | 4.1                  | 514  |                      |               | 336   | 1.10           |                    |      |
| 0.32         | 6612          | 4325  | 1.85           | 4.5                  | 474  |                      |               | 310   | 1.19           |                    |      |
| 0.38         | 5609          | 3669  | 2.18           | 4.8                  | 439  |                      |               | 287   | 1.29           |                    |      |
| 0.43         | 4935          | 3228  | 2.48           | 5.3                  | 404  |                      |               | 264   | 1.40           |                    |      |
| 0.49         | 4331          | 2833  | 2.82           | 5.5                  | 390  |                      |               | 255   | 1.45           |                    |      |
| 0.24         | 8918          | 5834  | 0.84           | R 137R77<br>RF137R77 | 4    | 5.9                  | 359           | 235   | 1.57           |                    |      |
| 0.28         | 7645          | 5001  | 0.98           |                      |      | 6.1                  | 350           | 229   | 1.61           |                    |      |
| 0.30         | 7199          | 4709  | 1.04           |                      |      | 6.9                  | 307           | 201   | 1.84           |                    |      |
| 0.32         | 6671          | 4364  | 1.13           |                      |      | 7.1                  | 298           | 195   | 1.89           |                    |      |
| 0.35         | 6142          | 4018  | 1.22           |                      |      | 7.7                  | 277           | 181   | 2.0            |                    |      |
| 0.37         | 6005          | 3928  | 1.25           |                      |      | 8.1                  | 263           | 172   | 2.15           |                    |      |
| 0.40         | 5372          | 3514  | 1.40           |                      |      | 9.0                  | 235           | 154   | 2.40           |                    |      |
| 0.42         | 5103          | 3338  | 1.47           |                      |      | 4.3                  | 495           | 324   | 0.85           |                    |      |
| 0.47         | 4478          | 2929  | 1.68           |                      |      | 4.4                  | 488           | 319   | 0.87           |                    |      |
| 0.52         | 4063          | 2658  | 1.85           |                      |      | 4.8                  | 443           | 290   | 0.95           |                    |      |
| 0.58         | 3687          | 2414  | 2.0            | 5.2                  | 408  | 267                  | 1.04          |       |                |                    |      |
| 0.67         | 3169          | 2073  | 2.4            | 5.3                  | 401  | 262                  | 1.06          |       |                |                    |      |
| 0.76         | 2811          | 1839  | 2.7            | 5.7                  | 376  | 246                  | 1.12          |       |                |                    |      |
| 0.99         | 2136          | 1397  | 3.5            | 5.8                  | 368  | 241                  | 1.15          |       |                |                    |      |
| 1.1          | 1874          | 1226  | 4.0            | 6.3                  | 336  | 220                  | 1.26          |       |                |                    |      |
| 0.46         | 4609          | 3015  | 0.88           | R 107R77<br>RF107R77 | 4    | 6.5                  | 329           | 215   | 1.29           |                    |      |
| 0.71         | 3013          | 1971  | 1.34           |                      |      | 7.6                  | 280           | 183   | 1.51           |                    |      |
| 0.77         | 2772          | 1813  | 1.46           |                      |      | 8.6                  | 246           | 161   | 1.72           |                    |      |
| 0.88         | 2426          | 1587  | 1.67           |                      |      | 10                   | 211           | 138   | 2.0            |                    |      |
| 1.0          | 2123          | 1389  | 1.90           |                      |      | 6.1                  | 349           | 228   | 0.81           |                    |      |
| 1.1          | 1859          | 1216  | 2.2            |                      |      | 7.1                  | 298           | 195   | 0.95           |                    |      |
| 1.5          | 1417          | 927   | 2.9            |                      |      | 7.6                  | 278           | 182   | 1.01           |                    |      |
| 1.7          | 1241          | 812   | 3.3            |                      |      | 9.0                  | 235           | 154   | 1.20           |                    |      |

R





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| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type       | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>0.25kW</b>         |                     |            |                         |                    |           | <b>0.25kW</b>         |                     |            |                         |              |           |
| 8.9                   | 238                 | 156        | 0.79                    | R 37R17<br>RF37R17 | 4         | 7.4                   | 308                 | 186.89     | 1.37                    | R 57<br>RF57 | 4         |
| 9.3                   | 229                 | 150        | 0.82                    |                    |           | 8.1                   | 284                 | 172.17     | 1.49                    |              |           |
| 10                    | 206                 | 135        | 0.91                    |                    |           | 9.4                   | 244                 | 147.92     | 1.73                    |              |           |
| 11                    | 194                 | 127        | 0.97                    |                    |           | 11                    | 212                 | 128.77     | 1.99                    |              |           |
| 12                    | 168                 | 110        | 1.12                    |                    |           | 12                    | 199                 | 120.63     | 2.1                     |              |           |
| 13                    | 159                 | 104        | 1.18                    |                    |           | 13                    | 176                 | 106.58     | 2.4                     |              |           |
| 14                    | 144                 | 94         | 1.31                    |                    |           | 14                    | 163                 | 98.99      | 2.6                     |              |           |
| 15                    | 138                 | 90         | 1.37                    | R 97<br>RF97       | 8         | 15                    | 148                 | 89.71      | 2.9                     | R 47<br>RF47 | 4         |
| 2.2                   | 1029                | 289.60     | 2.7                     |                    |           | 17                    | 133                 | 80.55      | 3.2                     |              |           |
| 2.5                   | 913                 | 256.89     | 3.1                     |                    |           | 20                    | 114                 | 69.23      | 3.7                     |              |           |
| 2.7                   | 856                 | 240.83     | 3.3                     |                    |           | 7.9                   | 292                 | 176.88     | 0.97                    |              |           |
| 3.0                   | 767                 | 215.94     | 3.7                     | R 87<br>RF87       | 8         | 8.5                   | 269                 | 162.94     | 1.05                    |              |           |
| 2.6                   | 876                 | 246.54     | 1.66                    |                    |           | 9.9                   | 231                 | 139.99     | 1.22                    |              |           |
| 3.0                   | 769                 | 216.54     | 1.89                    |                    |           | 11                    | 201                 | 121.87     | 1.40                    |              |           |
| 3.1                   | 731                 | 205.71     | 1.99                    |                    |           | 12                    | 188                 | 114.17     | 1.50                    |              |           |
| 3.5                   | 646                 | 181.77     | 2.3                     |                    |           | 14                    | 166                 | 100.86     | 1.70                    |              |           |
| 3.9                   | 592                 | 166.59     | 1.30                    | R 77<br>RF77       | 8         | 15                    | 154                 | 93.68      | 1.83                    | R 37<br>RF37 | 4         |
| 4.4                   | 518                 | 145.67     | 1.49                    |                    |           | 16                    | 140                 | 84.90      | 2.0                     |              |           |
| 4.7                   | 492                 | 138.39     | 1.57                    |                    |           | 18                    | 126                 | 76.23      | 2.2                     |              |           |
| 5.3                   | 431                 | 121.42     | 1.79                    |                    |           | 20                    | 113                 | 68.54      | 2.5                     |              |           |
| 4.4                   | 526                 | 195.24     | 1.46                    | R 77<br>RF77       | 6         | 22                    | 106                 | 64.21      | 2.7                     |              |           |
| 5.1                   | 449                 | 166.59     | 1.72                    |                    |           | 25                    | 94                  | 56.73      | 3.0                     |              |           |
| 5.8                   | 393                 | 145.67     | 1.96                    |                    |           | 26                    | 87                  | 52.69      | 3.2                     |              |           |
| 7.1                   | 322                 | 195.24     | 2.4                     | R 77<br>RF77       | 4         | 29                    | 79                  | 47.75      | 3.6                     |              |           |
| 8.3                   | 275                 | 166.59     | 2.8                     |                    |           | 10                    | 222                 | 134.82     | 0.85                    | R 27<br>RF27 | 4         |
| 9.5                   | 240                 | 145.67     | 3.2                     |                    |           | 11                    | 204                 | 123.66     | 0.92                    |              |           |
| 10                    | 228                 | 138.39     | 3.4                     |                    |           | 13                    | 175                 | 105.28     | 1.08                    |              |           |
| 11                    | 200                 | 121.42     | 3.8                     |                    |           | 15                    | 150                 | 90.77      | 1.26                    |              |           |
| 4.1                   | 562                 | 158.14     | 1.00                    | R 67<br>RF67       | 8         | 16                    | 140                 | 84.61      | 1.35                    |              |           |
| 4.7                   | 489                 | 137.67     | 1.15                    |                    |           | 19                    | 122                 | 73.96      | 1.54                    |              |           |
| 5.0                   | 458                 | 128.97     | 1.23                    |                    |           | 20                    | 114                 | 69.33      | 1.64                    |              |           |
| 5.7                   | 405                 | 113.94     | 1.39                    |                    |           | 23                    | 101                 | 61.18      | 1.86                    |              |           |
| 4.3                   | 539                 | 199.81     | 1.05                    | R 67<br>RF67       | 6         | 25                    | 92                  | 55.76      | 2.0                     | R 57<br>RF57 | 6         |
| 4.6                   | 496                 | 184.07     | 1.14                    |                    |           | 29                    | 79                  | 48.08      | 2.4                     |              |           |
| 5.4                   | 426                 | 158.14     | 1.32                    |                    |           | 31                    | 74                  | 44.81      | 2.5                     |              |           |
| 6.2                   | 371                 | 137.67     | 1.52                    |                    |           | 35                    | 65                  | 39.17      | 2.9                     |              |           |
| 6.6                   | 348                 | 128.97     | 1.62                    |                    |           | 38                    | 61                  | 36.72      | 3.1                     |              |           |
| 7.5                   | 307                 | 113.94     | 1.84                    |                    |           | 43                    | 53                  | 32.40      | 3.5                     |              |           |
| 8.0                   | 285                 | 105.83     | 1.98                    |                    |           | 16                    | 140                 | 84.78      | 0.87                    | R 47<br>RF47 | 4         |
| 7.0                   | 329                 | 199.81     | 1.71                    | R 67<br>RF67       | 4         | 19                    | 122                 | 74.11      | 1.00                    |              |           |
| 7.6                   | 304                 | 184.07     | 1.86                    |                    |           | 20                    | 115                 | 69.47      | 1.07                    |              |           |
| 8.8                   | 261                 | 158.14     | 2.2                     |                    |           | 23                    | 101                 | 61.30      | 1.21                    |              |           |
| 10                    | 227                 | 137.67     | 2.5                     |                    |           | 25                    | 92                  | 55.87      | 1.33                    |              |           |
| 11                    | 213                 | 128.97     | 2.7                     |                    |           | 29                    | 79                  | 48.17      | 1.54                    |              |           |
| 12                    | 188                 | 113.94     | 3.0                     |                    |           | 31                    | 74                  | 44.90      | 1.65                    |              |           |
| 13                    | 175                 | 105.83     | 3.2                     |                    |           | 35                    | 65                  | 39.25      | 1.89                    |              |           |
| 14                    | 158                 | 95.91      | 3.6                     |                    |           | 38                    | 61                  | 36.79      | 2.0                     |              |           |
| 16                    | 142                 | 86.11      | 4.0                     |                    |           | 43                    | 54                  | 32.47      | 2.3                     |              |           |
| 4.5                   | 504                 | 186.89     | 0.84                    | R 57<br>RF57       | 6         | 48                    | 48                  | 28.78      | 2.5                     | R 37<br>RF37 | 4         |
| 4.9                   | 464                 | 172.17     | 0.91                    |                    |           | 49                    | 47                  | 28.37      | 2.6                     |              |           |
| 5.7                   | 399                 | 147.92     | 1.06                    |                    |           | 53                    | 43                  | 26.09      | 2.8                     |              |           |
| 6.6                   | 347                 | 128.77     | 1.22                    |                    |           | 57                    | 40                  | 24.47      | 3.0                     |              |           |
| 7.0                   | 325                 | 120.63     | 1.30                    |                    |           | 62                    | 37                  | 22.32      | 3.3                     |              |           |
| 8.0                   | 287                 | 106.58     | 1.47                    |                    |           | 72                    | 32                  | 19.35      | 3.8                     |              |           |
| 8.6                   | 267                 | 98.99      | 1.58                    |                    |           | 77                    | 30                  | 18.08      | 4.1                     |              |           |
|                       |                     |            |                         |                    |           | 89                    | 26                  | 15.63      | 4.7                     |              |           |
|                       |                     |            |                         |                    |           | 105                   | 22                  | 13.28      | 5.6                     |              |           |
|                       |                     |            |                         |                    |           | 117                   | 20                  | 11.86      | 6.2                     |              |           |
|                       |                     |            |                         |                    |           | 137                   | 17                  | 10.13      | 6.9                     |              |           |
|                       |                     |            |                         |                    |           | 148                   | 16                  | 9.41       | 7.4                     |              |           |
|                       |                     |            |                         |                    |           | 170                   | 14                  | 8.16       | 8.1                     |              |           |
|                       |                     |            |                         |                    |           | 182                   | 13                  | 7.63       | 8.4                     |              |           |
|                       |                     |            |                         |                    |           | 211                   | 11                  | 6.59       | 9.2                     |              |           |
|                       |                     |            |                         |                    |           | 248                   | 9.0                 | 5.60       | 10                      |              |           |
|                       |                     |            |                         |                    |           | 278                   | 8.2                 | 5.00       | 11                      |              |           |
|                       |                     |            |                         |                    |           | 326                   | 7.0                 | 4.27       | 12                      |              |           |
|                       |                     |            |                         |                    |           | 348                   | 7.0                 | 4.00       | 12                      |              |           |
|                       |                     |            |                         |                    |           | 412                   | 6.0                 | 3.37       | 13                      |              |           |



| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type         | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|----------------|-----------|-----------------------|---------------------|------------|-------------------------|----------------------|-----------|
| <b>0.25kW</b>         |                     |            |                         |                |           | <b>0.37kW</b>         |                     |            |                         |                      |           |
| 26                    | 87                  | 52.57      | 0.92                    | R 17<br>RF17   | 4         | 0.19                  | 16532               | 7307       | 0.80                    | R 147R77<br>RF147R77 | 4         |
| 28                    | 81                  | 49.28      | 0.98                    |                |           | 0.22                  | 14586               | 6447       | 0.84                    |                      |           |
| 32                    | 72                  | 43.49      | 1.11                    |                |           | 0.25                  | 12597               | 5568       | 0.97                    |                      |           |
| 34                    | 67                  | 40.49      | 1.20                    |                |           | 0.29                  | 10894               | 4815       | 1.12                    |                      |           |
| 39                    | 58                  | 35.40      | 1.37                    |                |           | 0.32                  | 9785                | 4325       | 1.25                    |                      |           |
| 42                    | 55                  | 33.18      | 1.46                    |                |           | 0.38                  | 8301                | 3669       | 1.47                    |                      |           |
| 47                    | 48                  | 29.28      | 1.65                    |                |           | 0.43                  | 7303                | 3228       | 1.67                    |                      |           |
| 54                    | 43                  | 25.96      | 1.87                    |                |           | 0.49                  | 6410                | 2833       | 1.91                    |                      |           |
| 60                    | 38                  | 23.13      | 2.1                     |                |           | 0.32                  | 9873                | 4364       | 0.76                    | R 137R77<br>RF137R77 | 4         |
| 63                    | 36                  | 22.06      | 2.2                     |                |           | 0.35                  | 8887                | 3928       | 0.85                    |                      |           |
| 66                    | 35                  | 21.22      | 2.3                     |                |           | 0.40                  | 7950                | 3514       | 0.95                    |                      |           |
| 77                    | 30                  | 18.06      | 2.7                     |                |           | 0.42                  | 7552                | 3338       | 1.00                    |                      |           |
| 89                    | 26                  | 15.57      | 3.1                     |                |           | 0.47                  | 6627                | 2929       | 1.13                    |                      |           |
| 96                    | 24                  | 14.52      | 3.3                     |                |           | 0.52                  | 6014                | 2658       | 1.25                    |                      |           |
| 110                   | 21                  | 12.69      | 3.8                     |                |           | 0.56                  | 5620                | 2484       | 1.34                    |                      |           |
| 117                   | 20                  | 11.89      | 4.1                     |                |           | 0.58                  | 5457                | 2412       | 1.38                    |                      |           |
| 132                   | 17                  | 10.5       | 4.2                     |                |           | 0.62                  | 5072                | 2242       | 1.48                    |                      |           |
| 149                   | 15                  | 9.31       | 4.4                     |                |           | 0.67                  | 4690                | 2073       | 1.60                    |                      |           |
| 176                   | 13                  | 7.91       | 4.5                     | RX 67<br>RXF67 | 6         | 0.76                  | 4161                | 1839       | 1.81                    | R 107R77<br>RF107R77 | 4         |
| 184                   | 12                  | 7.55       | 4.7                     |                |           | 0.99                  | 3161                | 1397       | 2.4                     |                      |           |
| 197                   | 11                  | 7.04       | 5.0                     |                |           | 1.1                   | 2774                | 1226       | 2.7                     |                      |           |
| 226                   | 10                  | 6.15       | 5.2                     |                |           | 1.3                   | 2466                | 1090       | 3.0                     |                      |           |
| 241                   | 9                   | 5.76       | 5.3                     |                |           | 1.5                   | 2152                | 951        | 3.5                     |                      |           |
| 273                   | 8                   | 5.09       | 5.7                     |                |           | 0.68                  | 4618                | 2041       | 0.88                    |                      |           |
| 308                   | 7                   | 4.51       | 6.1                     |                |           | 0.71                  | 4459                | 1971       | 0.91                    |                      |           |
| 363                   | 6                   | 3.83       | 6.7                     |                |           | 0.77                  | 4102                | 1813       | 0.99                    |                      |           |
| 140                   | 16                  | 6.07       | 2.5                     |                |           | 0.83                  | 3785                | 1673       | 1.07                    |                      |           |
| 164                   | 14                  | 5.18       | 4.9                     |                |           | 0.88                  | 3591                | 1587       | 1.13                    |                      |           |
| 188                   | 13                  | 4.53       | 6.2                     | RX 67<br>RXF67 | 4         | 0.91                  | 3464                | 1531       | 1.17                    |                      |           |
| 198                   | 12                  | 4.30       | 6.4                     |                |           | 1.0                   | 3145                | 1390       | 1.29                    |                      |           |
| 229                   | 10                  | 6.07       | 4.0                     |                |           | 1.1                   | 2751                | 1216       | 1.47                    |                      |           |
| 268                   | 9                   | 5.18       | 8.1                     |                |           | 1.2                   | 2701                | 1194       | 1.50                    |                      |           |
| 307                   | 8                   | 4.53       | 10                      |                |           | 1.3                   | 2360                | 1043       | 1.71                    |                      |           |
| 323                   | 7                   | 4.30       | 10                      |                |           | 1.5                   | 2097                | 927        | 1.93                    |                      |           |
| 369                   | 6                   | 3.77       | 13                      |                |           | 1.7                   | 1837                | 812        | 2.2                     |                      |           |
| 434                   | 5.5                 | 3.20       | 17                      |                |           | 0.97                  | 3244                | 1434       | 0.87                    | R 97R57<br>RF97R57   | 4         |
| 481                   | 5                   | 2.89       | 20                      |                |           | 1.0                   | 3158                | 1396       | 0.89                    |                      |           |
| 547                   | 4.5                 | 2.54       | 26                      |                |           | 1.1                   | 2778                | 1228       | 1.02                    |                      |           |
| 579                   | 4                   | 2.40       | 29                      |                |           | 1.2                   | 2731                | 1207       | 1.03                    |                      |           |
| 681                   | 3                   | 2.04       | 37                      |                |           | 1.3                   | 2453                | 1084       | 1.15                    |                      |           |
| 155                   | 15                  | 5.50       | 2.4                     | RX 57<br>RXF57 | 6         | 1.4                   | 2416                | 1068       | 1.17                    |                      |           |
| 168                   | 14                  | 5.07       | 2.4                     |                |           | 1.5                   | 2120                | 937        | 1.33                    |                      |           |
| 195                   | 12                  | 4.35       | 5.3                     |                |           | 1.7                   | 1864                | 824        | 1.51                    |                      |           |
| 224                   | 10                  | 3.79       | 6.2                     |                |           | 1.9                   | 1667                | 737        | 1.69                    |                      |           |
| 253                   | 9.3                 | 5.50       | 4.0                     |                |           | 2.2                   | 1428                | 631        | 1.98                    |                      |           |
| 274                   | 8.5                 | 5.07       | 4.0                     |                |           | 3.2                   | 973                 | 430        | 2.9                     |                      |           |
| 320                   | 7.3                 | 4.35       | 9.0                     |                |           | 3.7                   | 857                 | 379        | 3.3                     |                      |           |
| 367                   | 6.4                 | 3.79       | 10                      |                |           | 4.1                   | 760                 | 336        | 3.7                     |                      |           |
| 392                   | 6.0                 | 3.55       | 11                      |                |           | 1.7                   | 1814                | 802        | 0.80                    | R 87R57<br>RF87R57   | 4         |
| 443                   | 5.3                 | 3.14       | 12                      |                |           | 1.8                   | 1751                | 774        | 0.83                    |                      |           |
| 478                   | 4.9                 | 2.91       | 13                      |                |           | 1.9                   | 1706                | 754        | 0.85                    |                      |           |
| 527                   | 4.4                 | 2.64       | 15                      |                |           | 2.0                   | 1545                | 683        | 0.94                    |                      |           |
| 586                   | 4.0                 | 2.37       | 16                      |                |           | 2.1                   | 1468                | 649        | 0.99                    |                      |           |
| 681                   | 3.4                 | 2.04       | 19                      |                |           | 2.3                   | 1355                | 599        | 1.08                    |                      |           |
| 724                   | 3.2                 | 1.92       | 20                      |                |           | 2.5                   | 1217                | 538        | 1.20                    |                      |           |
| 842                   | 2.8                 | 1.65       | 23                      |                |           | 2.6                   | 1188                | 525        | 1.23                    |                      |           |
| 370                   | 6                   | 3.76       | 2.37                    | RX 37<br>RXF37 | 4         | 2.9                   | 1068                | 472        | 1.36                    |                      |           |
| 426                   | 5.5                 | 3.26       | 2.73                    |                |           | 3.1                   | 1027                | 454        | 1.42                    |                      |           |
| 456                   | 5                   | 3.05       | 2.92                    |                |           | 3.5                   | 905                 | 400        | 1.61                    |                      |           |
| 527                   | 4.5                 | 2.64       | 3.38                    |                |           | 3.9                   | 817                 | 361        | 1.78                    |                      |           |
| 621                   | 4                   | 2.24       | 3.98                    |                |           | 5.2                   | 604                 | 267        | 2.4                     |                      |           |
| 695                   | 3.5                 | 2.00       | 4.46                    |                |           | 5.9                   | 532                 | 235        | 2.7                     |                      |           |
| 813                   | 3                   | 1.71       | 5.21                    |                |           |                       |                     |            |                         |                      |           |
| 869                   | 2.5                 | 1.60       | 5.57                    |                |           |                       |                     |            |                         |                      |           |

R



R

| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type       | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>0.37kW</b>         |                     |            |                         |                    |           | <b>0.37kW</b>         |                     |            |                         |              |           |
| 3.3                   | 964                 | 426        | 0.80                    | R 77R37<br>RF77R37 | 4         | 6.6                   | 503                 | 128.77     | 0.84                    | R 57<br>RF57 | 6         |
| 3.8                   | 824                 | 364        | 0.94                    |                    |           | 7.0                   | 471                 | 120.63     | 0.90                    |              |           |
| 4.3                   | 740                 | 327        | 1.04                    |                    |           | 8.0                   | 416                 | 106.58     | 1.02                    |              |           |
| 4.5                   | 701                 | 310        | 1.10                    |                    |           | 8.6                   | 387                 | 98.99      | 1.09                    |              |           |
| 5.6                   | 561                 | 248        | 1.37                    |                    |           | 7.4                   | 447                 | 186.89     | 0.95                    |              |           |
| 6.3                   | 495                 | 219        | 1.56                    |                    |           | 8.1                   | 411                 | 172.17     | 1.03                    | R 57<br>RF57 | 4         |
| 7.4                   | 425                 | 188        | 1.81                    |                    |           | 9.4                   | 353                 | 147.92     | 1.20                    |              |           |
| 8.6                   | 367                 | 162        | 2.1                     |                    |           | 11                    | 308                 | 128.77     | 1.37                    |              |           |
| 9.8                   | 321                 | 142        | 2.4                     |                    |           | 12                    | 288                 | 120.63     | 1.47                    |              |           |
| 4.8                   | 649                 | 287        | 0.87                    | R 67R37<br>RF67R37 | 4         | 13                    | 255                 | 106.58     | 1.66                    |              |           |
| 5.5                   | 577                 | 255        | 0.98                    |                    |           | 14                    | 237                 | 98.99      | 1.79                    |              |           |
| 6.1                   | 518                 | 229        | 1.09                    |                    |           | 15                    | 214                 | 89.71      | 1.97                    |              |           |
| 7.1                   | 441                 | 195        | 1.28                    |                    |           | 17                    | 192                 | 80.55      | 2.2                     |              |           |
| 2.5                   | 1323                | 256.89     | 2.1                     | R 97<br>RF97       | 8         | 20                    | 165                 | 69.23      | 2.6                     |              |           |
| 2.7                   | 1240                | 240.83     | 2.3                     |                    |           | 21                    | 155                 | 64.85      | 2.7                     |              |           |
| 3.0                   | 1112                | 215.94     | 2.5                     |                    |           | 24                    | 137                 | 57.29      | 3.1                     |              |           |
| 3.5                   | 958                 | 185.97     | 2.9                     |                    |           | 26                    | 127                 | 53.22      | 3.3                     |              |           |
| 2.9                   | 1132                | 289.60     | 2.5                     | R 97<br>RF97       | 6         | 29                    | 115                 | 48.23      | 3.7                     |              |           |
| 3.3                   | 1004                | 256.89     | 2.8                     |                    |           | 9.9                   | 335                 | 139.99     | 0.84                    | R 47<br>RF47 | 4         |
| 3.5                   | 941                 | 240.83     | 3.0                     |                    |           | 11                    | 291                 | 121.87     | 0.97                    |              |           |
| 3.9                   | 844                 | 215.94     | 3.3                     |                    |           | 12                    | 273                 | 114.17     | 1.03                    |              |           |
| 3.0                   | 1115                | 216.54     | 1.31                    | R 87<br>RF87       | 8         | 14                    | 241                 | 100.86     | 1.17                    |              |           |
| 3.1                   | 1059                | 205.71     | 1.38                    |                    |           | 15                    | 224                 | 93.68      | 1.26                    |              |           |
| 3.5                   | 936                 | 181.77     | 1.6                     |                    |           | 16                    | 203                 | 84.90      | 1.39                    |              |           |
| 3.4                   | 963                 | 246.54     | 1.51                    |                    |           | 18                    | 182                 | 76.23      | 1.55                    |              |           |
| 3.9                   | 846                 | 216.54     | 1.72                    | R 87<br>RF87       | 6         | 20                    | 164                 | 68.54      | 1.72                    |              |           |
| 4.1                   | 804                 | 205.71     | 1.81                    |                    |           | 22                    | 153                 | 64.21      | 1.84                    |              |           |
| 4.7                   | 710                 | 181.77     | 2.1                     |                    |           | 25                    | 136                 | 56.73      | 2.1                     |              |           |
| 5.5                   | 607                 | 155.34     | 2.4                     |                    |           | 26                    | 126                 | 52.69      | 2.2                     |              |           |
| 6.0                   | 556                 | 142.41     | 2.6                     |                    |           | 29                    | 114                 | 47.75      | 2.5                     |              |           |
| 4.4                   | 750                 | 145.67     | 1.03                    | R 77<br>RF77       | 8         | 32                    | 102                 | 42.87      | 2.6                     |              |           |
| 4.7                   | 713                 | 138.39     | 1.08                    |                    |           | 38                    | 88                  | 36.93      | 2.7                     |              |           |
| 5.3                   | 625                 | 121.42     | 1.23                    |                    |           | 40                    | 83                  | 34.73      | 2.8                     |              |           |
| 5.1                   | 651                 | 166.59     | 1.18                    | R 77<br>RF77       | 6         | 41                    | 81                  | 33.79      | 3.2                     |              |           |
| 5.8                   | 569                 | 145.67     | 1.35                    |                    |           | 45                    | 74                  | 31.12      | 3.4                     |              |           |
| 6.1                   | 541                 | 138.39     | 1.43                    |                    |           | 52                    | 64                  | 26.74      | 4.4                     |              |           |
| 7.1                   | 467                 | 195.24     | 1.65                    | R 77<br>RF77       | 4         | 60                    | 56                  | 23.28      | 5.1                     |              |           |
| 8.3                   | 398                 | 166.59     | 1.94                    |                    |           | 64                    | 52                  | 21.81      | 5.4                     |              |           |
| 9.5                   | 348                 | 145.67     | 2.2                     |                    |           | 15                    | 217                 | 90.77      | 0.87                    | R 37<br>RF37 | 4         |
| 10                    | 331                 | 138.39     | 2.3                     |                    |           | 16                    | 202                 | 84.61      | 0.93                    |              |           |
| 11                    | 290                 | 121.42     | 2.7                     |                    |           | 19                    | 177                 | 73.96      | 1.06                    |              |           |
| 13                    | 246                 | 102.99     | 3.1                     |                    |           | 20                    | 166                 | 69.33      | 1.13                    |              |           |
| 15                    | 222                 | 92.97      | 3.47                    |                    |           | 23                    | 146                 | 61.18      | 1.29                    |              |           |
| 5.4                   | 618                 | 158.14     | 0.91                    | R 67<br>RF67       | 6         | 25                    | 133                 | 55.76      | 1.41                    |              |           |
| 6.2                   | 538                 | 137.67     | 1.05                    |                    |           | 29                    | 115                 | 48.08      | 1.64                    |              |           |
| 6.6                   | 504                 | 128.97     | 1.12                    |                    |           | 31                    | 107                 | 44.81      | 1.76                    |              |           |
| 7.5                   | 445                 | 113.94     | 1.27                    |                    |           | 35                    | 94                  | 39.17      | 2.0                     |              |           |
| 7.0                   | 477                 | 199.81     | 1.18                    | R 67<br>RF67       | 4         | 38                    | 88                  | 36.72      | 2.1                     |              |           |
| 7.6                   | 440                 | 184.07     | 1.28                    |                    |           | 43                    | 77                  | 32.40      | 2.4                     |              |           |
| 8.8                   | 378                 | 158.14     | 1.49                    |                    |           | 48                    | 69                  | 28.73      | 2.7                     |              |           |
| 10                    | 329                 | 137.67     | 1.71                    |                    |           | 49                    | 68                  | 28.32      | 2.8                     |              |           |
| 11                    | 308                 | 128.97     | 1.83                    |                    |           | 53                    | 62                  | 26.03      | 2.9                     |              |           |
| 12                    | 272                 | 113.94     | 2.1                     |                    |           | 57                    | 58                  | 24.42      | 3.2                     |              |           |
| 13                    | 253                 | 105.83     | 2.2                     |                    |           | 62                    | 53                  | 22.27      | 3.5                     |              |           |
| 14                    | 229                 | 95.91      | 2.5                     |                    |           | 72                    | 46                  | 19.31      | 4.1                     |              |           |
| 16                    | 206                 | 86.11      | 2.7                     |                    |           | 77                    | 43                  | 18.05      | 4.4                     |              |           |
| 19                    | 177                 | 74.17      | 3.2                     |                    |           | 89                    | 38                  | 15.60      | 4.9                     |              |           |
| 20                    | 167                 | 69.75      | 3.4                     |                    |           | 105                   | 32                  | 13.25      | 5.5                     |              |           |
| 23                    | 146                 | 61.26      | 3.9                     |                    |           | 117                   | 29                  | 11.83      | 6.0                     |              |           |
| 24                    | 136                 | 56.89      | 4.1                     |                    |           |                       |                     |            |                         |              |           |



| Output speed | Output torque | Ratio | Service factor | Type           | Pole | Output speed | Output torque | Ratio                | Service factor | Type                 | Pole |                |   |
|--------------|---------------|-------|----------------|----------------|------|--------------|---------------|----------------------|----------------|----------------------|------|----------------|---|
| r/min        | Nm            | i     | f <sub>B</sub> | Type           | p    | r/min        | Nm            | i                    | f <sub>B</sub> | Type                 | p    |                |   |
| 0.37kW       |               |       |                |                |      | 0.37kW       |               |                      |                |                      |      |                |   |
| 23           | 146           | 61.30 | 0.83           | R 27<br>RF27   | 4    | 253          | 13.7          | 5.50                 | 2.7            | RX 57<br>RXF57       | 4    |                |   |
| 25           | 134           | 55.87 | 0.92           |                |      | 274          | 12.6          | 5.07                 | 2.7            |                      |      |                |   |
| 29           | 115           | 48.17 | 1.06           |                |      | 320          | 10.8          | 4.35                 | 5.9            |                      |      |                |   |
| 31           | 107           | 44.90 | 1.14           |                |      | 367          | 9.4           | 3.79                 | 6.9            |                      |      |                |   |
| 35           | 94            | 39.25 | 1.30           |                |      | 392          | 8.8           | 3.55                 | 7.3            |                      |      |                |   |
| 38           | 88            | 36.79 | 1.39           |                |      | 443          | 7.8           | 3.14                 | 7.8            |                      |      |                |   |
| 43           | 78            | 32.47 | 1.57           |                |      | 478          | 7.2           | 2.91                 | 8.7            |                      |      |                |   |
| 48           | 69            | 28.78 | 1.78           |                |      | 527          | 6.6           | 2.64                 | 9.9            |                      |      |                |   |
| 49           | 68            | 28.37 | 1.80           |                |      | 586          | 5.9           | 2.37                 | 11             |                      |      |                |   |
| 53           | 62            | 26.09 | 1.96           |                |      | 681          | 5.1           | 2.04                 | 13             |                      |      |                |   |
| 57           | 58            | 24.47 | 2.1            |                |      | 724          | 4.8           | 1.92                 | 14             |                      |      |                |   |
| 62           | 53            | 22.32 | 2.3            |                |      | 842          | 4.1           | 1.65                 | 16             |                      |      |                |   |
| 72           | 46            | 19.35 | 2.6            |                |      |              |               |                      |                |                      |      |                |   |
| 77           | 43            | 18.08 | 2.8            |                |      |              |               | 426                  | 8.1            | 3.26                 | 1.85 | RX 37<br>RXF37 | 4 |
| 89           | 37            | 15.63 | 3.3            |                |      | 456          | 7.6           | 3.05                 | 1.97           |                      |      |                |   |
| 105          | 32            | 13.28 | 3.9            |                |      | 527          | 6.6           | 2.64                 | 2.28           |                      |      |                |   |
|              |               |       |                |                |      | 621          | 5.6           | 2.24                 | 2.69           |                      |      |                |   |
|              |               |       |                |                |      | 695          | 5.0           | 2.00                 | 3.01           |                      |      |                |   |
|              |               |       |                | R 17<br>RF17   | 4    | 813          | 4.3           | 1.71                 | 3.52           |                      |      |                |   |
| 39           | 85            | 35.40 | 0.94           |                |      | 869          | 4.0           | 1.60                 | 3.76           |                      |      |                |   |
| 42           | 79            | 33.18 | 1.01           |                |      | 0.55kW       |               |                      |                |                      |      |                |   |
| 47           | 70            | 29.28 | 1.14           |                |      | 0.23         | 20411         | 6069                 | 0.83           | R 167R97<br>RF167R97 | 4    |                |   |
| 54           | 62            | 25.96 | 1.29           |                |      | 0.26         | 18157         | 5399                 | 0.93           |                      |      |                |   |
| 60           | 55            | 23.13 | 1.45           |                |      | 0.30         | 15837         | 4709                 | 1.07           |                      |      |                |   |
| 63           | 53            | 22.06 | 1.52           |                |      | 0.33         | 14065         | 4182                 | 1.20           |                      |      |                |   |
| 66           | 51            | 21.22 | 1.58           |                |      |              |               |                      |                | R 147R77<br>RF147R77 | 4    |                |   |
| 77           | 43            | 18.06 | 1.85           |                |      | 0.29         | 16193         | 4815                 | 0.75           |                      |      |                |   |
| 89           | 37            | 15.57 | 2.1            |                |      | 0.32         | 14545         | 4325                 | 0.84           |                      |      |                |   |
| 96           | 35            | 14.52 | 2.3            |                |      | 0.38         | 12339         | 3669                 | 0.99           |                      |      |                |   |
| 110          | 30            | 12.69 | 2.6            |                |      | 0.43         | 10856         | 3228                 | 1.13           |                      |      |                |   |
| 117          | 28            | 11.89 | 2.8            |                |      | 0.49         | 9528          | 2833                 | 1.28           |                      |      |                |   |
| 132          | 25            | 10.50 | 2.9            |                |      | 0.54         | 8593          | 2555                 | 1.42           |                      |      |                |   |
| 149          | 22            | 9.31  | 3.0            | 0.63           | 7436 | 2211         | 1.64          |                      |                |                      |      |                |   |
| 176          | 19            | 7.91  | 3.1            | 0.71           | 6561 | 1951         | 1.86          |                      |                |                      |      |                |   |
| 184          | 18            | 7.55  | 3.3            | 0.82           | 5734 | 1705         | 2.1           |                      |                |                      |      |                |   |
| 197          | 17            | 7.04  | 3.4            | 0.90           | 5166 | 1536         | 2.4           |                      |                |                      |      |                |   |
| 226          | 15            | 6.15  | 3.5            | 1.05           | 4470 | 1329         | 2.7           |                      |                |                      |      |                |   |
| 241          | 14            | 5.76  | 3.6            | 1.19           | 3921 | 1166         | 3.1           |                      |                |                      |      |                |   |
| 273          | 12            | 5.09  | 3.9            |                |      |              |               | R 137R77<br>RF137R77 | 4              |                      |      |                |   |
| 308          | 11            | 4.51  | 4.2            | 0.52           | 8939 | 2658         | 0.84          |                      |                |                      |      |                |   |
| 363          | 9             | 3.83  | 4.6            | 0.56           | 8354 | 2484         | 0.9           |                      |                |                      |      |                |   |
|              |               |       |                | 0.58           | 8112 | 2412         | 0.93          |                      |                |                      |      |                |   |
|              |               |       |                | 0.67           | 6972 | 2073         | 1.08          |                      |                |                      |      |                |   |
|              |               |       |                | 0.76           | 6185 | 1839         | 1.22          |                      |                |                      |      |                |   |
|              |               |       |                | 0.87           | 5374 | 1598         | 1.40          |                      |                |                      |      |                |   |
|              |               |       |                | 0.99           | 4698 | 1397         | 1.60          |                      |                |                      |      |                |   |
|              |               |       |                | 1.1            | 4123 | 1226         | 1.82          |                      |                |                      |      |                |   |
|              |               |       |                | 1.3            | 3666 | 1090         | 2.1           |                      |                |                      |      |                |   |
|              |               |       |                | 1.5            | 3198 | 951          | 2.4           |                      |                |                      |      |                |   |
|              |               |       |                | 1.7            | 2795 | 831          | 2.7           |                      |                |                      |      |                |   |
|              |               |       |                | RX 67<br>RXF67 | 4    |              |               | R 107R77<br>RF107R77 | 4              |                      |      |                |   |
| 164          | 21            | 5.18  | 3.3            |                |      | 1.0          | 4675          |                      |                | 1390                 | 0.86 |                |   |
| 188          | 19            | 4.53  | 4.2            |                |      | 1.1          | 4090          |                      |                | 1216                 | 0.99 |                |   |
| 198          | 18            | 4.30  | 4.3            |                |      | 1.2          | 4016          |                      |                | 1194                 | 1.01 |                |   |
| 225          | 15            | 3.77  | 5.3            |                |      | 1.3          | 3686          |                      |                | 1095                 | 1.10 |                |   |
|              |               |       |                |                |      | 1.4          | 3508          |                      |                | 1043                 | 1.15 |                |   |
| 229          | 15            | 6.07  | 2.7            |                |      | 1.5          | 3118          |                      |                | 927                  | 1.30 |                |   |
| 268          | 13            | 5.18  | 5.5            |                |      | 1.6          | 2986          |                      |                | 888                  | 1.35 |                |   |
| 307          | 12            | 4.53  | 6.8            |                |      | 1.7          | 2731          |                      |                | 812                  | 1.48 |                |   |
| 323          | 11            | 4.30  | 7.0            |                |      | 1.8          | 2647          |                      |                | 787                  | 1.53 |                |   |
| 369          | 9             | 3.77  | 8.7            |                |      | 2.0          | 2327          |                      |                | 692                  | 1.74 |                |   |
| 434          | 8             | 3.20  | 12             |                |      | 2.3          | 2035          |                      |                | 605                  | 1.99 |                |   |
| 481          | 7             | 2.89  | 14             |                |      |              |               |                      |                |                      |      |                |   |
| 547          | 6.3           | 2.54  | 18             |                |      |              |               |                      |                |                      |      |                |   |
| 579          | 6.0           | 2.40  | 19             |                |      |              |               |                      |                |                      |      |                |   |
| 681          | 5.1           | 2.04  | 25             |                |      |              |               |                      |                |                      |      |                |   |
|              |               |       |                | RX 57<br>RXF57 | 6    |              |               |                      |                |                      |      |                |   |
| 195          | 17.7          | 4.35  | 3.6            |                |      |              |               |                      |                |                      |      |                |   |
| 224          | 15.4          | 3.79  | 4.2            |                |      |              |               |                      |                |                      |      |                |   |
| 239          | 14.5          | 3.55  | 4.5            |                |      |              |               |                      |                |                      |      |                |   |

R



R

| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>0.55kW</b>         |                     |            |                         |              |           | <b>0.55kW</b>         |                     |            |                         |              |           |
| 1.5                   | 3151                | 937        | 0.89                    |              |           | 8.8                   | 562                 | 158.14     | 1.00                    |              |           |
| 1.7                   | 2771                | 824        | 1.02                    |              |           | 10                    | 489                 | 137.67     | 1.15                    |              |           |
| 1.9                   | 2479                | 737        | 1.14                    |              |           | 11                    | 458                 | 128.97     | 1.23                    |              |           |
| 2.2                   | 2122                | 631        | 1.33                    |              |           | 12                    | 405                 | 113.94     | 1.39                    |              |           |
| 2.5                   | 1883                | 560        | 1.50                    | R 97R57      | 4         | 13                    | 376                 | 105.83     | 1.50                    | R 67         | 4         |
| 2.9                   | 1628                | 484        | 1.73                    | RF97R57      | 4         | 14                    | 341                 | 95.91      | 1.66                    | RF67         | 4         |
| 3.2                   | 1446                | 430        | 1.95                    |              |           | 16                    | 306                 | 86.11      | 1.84                    |              |           |
| 3.7                   | 1275                | 379        | 2.2                     |              |           | 19                    | 263                 | 74.17      | 2.1                     |              |           |
| 4.1                   | 1130                | 336        | 2.5                     |              |           | 20                    | 248                 | 69.75      | 2.3                     |              |           |
| 4.7                   | 995                 | 296        | 2.8                     |              |           | 23                    | 218                 | 61.26      | 2.6                     |              |           |
| 5.6                   | 837                 | 249        | 3.4                     |              |           | 24                    | 202                 | 56.89      | 2.8                     |              |           |
| 2.6                   | 1766                | 525        | 0.83                    |              |           | 12                    | 428                 | 120.63     | 0.99                    |              |           |
| 2.9                   | 1587                | 472        | 0.92                    |              |           | 13                    | 379                 | 106.58     | 1.12                    |              |           |
| 3.1                   | 1527                | 454        | 0.95                    | R 87R57      | 4         | 14                    | 352                 | 98.99      | 1.20                    |              |           |
| 3.5                   | 1345                | 400        | 1.08                    | RF87R57      | 4         | 15                    | 319                 | 89.71      | 1.33                    |              |           |
| 3.6                   | 1332                | 396        | 1.09                    |              |           | 17                    | 286                 | 80.55      | 1.48                    |              |           |
| 3.9                   | 1214                | 361        | 1.20                    |              |           | 20                    | 246                 | 69.23      | 1.72                    |              |           |
| 4.0                   | 1180                | 351        | 1.23                    |              |           | 21                    | 230                 | 64.85      | 1.84                    | R 57         | 4         |
| 4.6                   | 1026                | 305        | 1.42                    |              |           | 24                    | 203                 | 57.29      | 2.1                     | RF57         | 4         |
| 5.1                   | 925                 | 275        | 0.83                    |              |           | 26                    | 189                 | 53.22      | 2.2                     |              |           |
| 5.9                   | 794                 | 236        | 0.97                    | R 77R37      | 4         | 29                    | 171                 | 48.23      | 2.5                     |              |           |
| 6.3                   | 743                 | 221        | 1.04                    | RF77R37      | 4         | 32                    | 154                 | 43.30      | 2.8                     |              |           |
| 7.8                   | 599                 | 178        | 1.29                    |              |           | 37                    | 132                 | 37.30      | 3.2                     |              |           |
| 2.6                   | 1893                | 256.89     | 1.50                    | R 97         | 8         | 40                    | 125                 | 35.07      | 3.4                     |              |           |
| 2.8                   | 1775                | 240.83     | 1.59                    | RF97         | 8         | 53                    | 93                  | 26.31      | 4.5                     |              |           |
| 3.1                   | 1591                | 215.94     | 1.77                    |              |           | 56                    | 89                  | 24.99      | 4.8                     |              |           |
| 2.9                   | 1682                | 289.60     | 1.68                    |              |           | 63                    | 78                  | 21.93      | 5.4                     |              |           |
| 3.3                   | 1492                | 256.89     | 1.90                    | R 97         | 6         | 75                    | 66                  | 18.60      | 6.4                     |              |           |
| 3.5                   | 1399                | 240.83     | 2.0                     | RF97         | 6         | 15                    | 333                 | 93.68      | 0.85                    |              |           |
| 3.9                   | 1254                | 215.94     | 2.2                     |              |           | 16                    | 302                 | 84.90      | 0.94                    |              |           |
| 4.8                   | 1029                | 289.60     | 2.7                     |              |           | 18                    | 271                 | 76.23      | 1.04                    |              |           |
| 5.4                   | 912                 | 256.89     | 3.1                     | R 97         | 4         | 20                    | 243                 | 68.54      | 1.16                    |              |           |
| 5.8                   | 855                 | 240.83     | 3.3                     | RF97         | 4         | 22                    | 228                 | 64.21      | 1.24                    |              |           |
| 6.4                   | 767                 | 215.94     | 3.7                     |              |           | 25                    | 202                 | 56.73      | 1.40                    |              |           |
| 3.6                   | 1375                | 246.54     | 1.06                    |              |           | 26                    | 187                 | 52.69      | 1.51                    | R 47         | 4         |
| 4.1                   | 1208                | 216.54     | 1.21                    | R 87         | 6         | 29                    | 170                 | 47.75      | 1.66                    | RF47         | 4         |
| 4.3                   | 1148                | 205.71     | 1.27                    | RF87         | 6         | 32                    | 152                 | 42.87      | 1.85                    |              |           |
| 4.9                   | 1014                | 181.77     | 1.44                    |              |           | 38                    | 131                 | 36.93      | 2.1                     |              |           |
| 5.7                   | 867                 | 155.34     | 1.68                    |              |           | 40                    | 123                 | 34.73      | 2.3                     |              |           |
| 5.6                   | 876                 | 246.54     | 1.66                    |              |           | 47                    | 106                 | 29.88      | 2.7                     |              |           |
| 6.4                   | 769                 | 216.54     | 1.89                    |              |           | 52                    | 95                  | 26.74      | 3.0                     |              |           |
| 6.8                   | 731                 | 205.71     | 2.0                     | R 87         | 4         | 60                    | 83                  | 23.28      | 3.4                     |              |           |
| 7.6                   | 646                 | 181.77     | 2.3                     | RF87         | 4         | 64                    | 77                  | 21.81      | 3.6                     |              |           |
| 8.9                   | 552                 | 155.34     | 2.6                     |              |           | 23                    | 217                 | 61.18      | 0.87                    |              |           |
| 9.8                   | 506                 | 142.41     | 2.9                     |              |           | 25                    | 198                 | 55.76      | 0.95                    |              |           |
| 11                    | 444                 | 124.97     | 3.3                     |              |           | 29                    | 171                 | 48.08      | 1.10                    |              |           |
| 12                    | 421                 | 118.43     | 3.5                     |              |           | 31                    | 159                 | 44.81      | 1.18                    |              |           |
| 13                    | 368                 | 103.65     | 4.0                     |              |           | 35                    | 139                 | 39.17      | 1.35                    |              |           |
| 8.3                   | 592                 | 166.59     | 1.30                    |              |           | 38                    | 130                 | 36.72      | 1.44                    |              |           |
| 9.5                   | 517                 | 145.67     | 1.49                    |              |           | 43                    | 115                 | 32.40      | 1.63                    |              |           |
| 10                    | 492                 | 138.39     | 1.57                    |              |           | 48                    | 102                 | 28.73      | 1.84                    | R 37         | 4         |
| 11                    | 431                 | 121.42     | 1.79                    |              |           | 57                    | 87                  | 24.42      | 2.2                     | RF37         | 4         |
| 13                    | 366                 | 102.99     | 2.1                     | R 77         | 4         | 62                    | 79                  | 22.27      | 2.4                     |              |           |
| 15                    | 330                 | 92.97      | 2.3                     | RF77         | 4         | 72                    | 69                  | 19.31      | 2.7                     |              |           |
| 17                    | 291                 | 81.80      | 2.7                     |              |           | 77                    | 64                  | 18.05      | 2.9                     |              |           |
| 18                    | 274                 | 77.24      | 2.8                     |              |           | 89                    | 55                  | 15.60      | 3.4                     |              |           |
| 21                    | 234                 | 65.77      | 3.3                     |              |           | 105                   | 47                  | 13.25      | 4.0                     |              |           |
|                       |                     |            |                         |              |           | 117                   | 42                  | 11.83      | 4.5                     |              |           |



| Output speed | Output torque | Ratio | Service factor | Type           | Pole | Output speed | Output torque | Ratio | Service factor | Type                 | Pole |  |  |
|--------------|---------------|-------|----------------|----------------|------|--------------|---------------|-------|----------------|----------------------|------|--|--|
| r/min        | Nm            | i     | f <sub>B</sub> | Type           | p    | r/min        | Nm            | i     | f <sub>B</sub> | Type                 | p    |  |  |
| 0.55kW       |               |       |                |                |      | 0.55kW       |               |       |                |                      |      |  |  |
| 35           | 139           | 39.25 | 0.88           | R 27<br>RF27   | 4    | 320          | 16            | 4.35  | 4.0            | RX 57<br>RXF57       | 4    |  |  |
| 38           | 131           | 36.79 | 0.94           |                |      | 367          | 14            | 3.79  | 4.6            |                      |      |  |  |
| 43           | 115           | 32.47 | 1.06           |                |      | 392          | 13            | 3.55  | 4.9            |                      |      |  |  |
| 48           | 102           | 28.78 | 1.20           |                |      | 443          | 12            | 3.14  | 5.3            |                      |      |  |  |
| 57           | 87            | 24.47 | 1.41           |                |      | 478          | 11            | 2.91  | 5.8            |                      |      |  |  |
| 62           | 79            | 22.32 | 1.54           |                |      | 527          | 10            | 2.64  | 6.6            |                      |      |  |  |
| 72           | 69            | 19.35 | 1.78           |                |      | 586          | 8.8           | 2.37  | 7.4            |                      |      |  |  |
| 77           | 64            | 18.08 | 1.90           |                |      | 681          | 7.6           | 2.04  | 8.6            |                      |      |  |  |
| 89           | 56            | 15.63 | 2.2            |                |      | 724          | 7.1           | 1.92  | 9.1            |                      |      |  |  |
| 105          | 47            | 13.28 | 2.6            |                |      | 842          | 6.1           | 1.65  | 11             |                      |      |  |  |
| 117          | 42            | 11.86 | 2.9            |                |      | 939          | 5.8           | 1.48  | 12             |                      |      |  |  |
| 137          | 36            | 10.13 | 3.2            |                |      | 1069         | 4.8           | 1.30  | 12             |                      |      |  |  |
| 148          | 33            | 9.41  | 3.4            |                |      |              |               |       |                |                      |      |  |  |
| 170          | 29            | 8.16  | 3.8            |                |      | 426          | 12            | 3.26  | 1.24           | RX 37<br>RXF37       | 4    |  |  |
| 182          | 27            | 7.63  | 3.9            |                |      | 456          | 11            | 3.05  | 1.33           |                      |      |  |  |
| 211          | 23            | 6.59  | 4.3            |                |      | 527          | 10            | 2.64  | 1.53           |                      |      |  |  |
| 248          | 20            | 5.60  | 4.7            |                |      | 621          | 8.3           | 2.24  | 1.81           |                      |      |  |  |
| 278          | 18            | 5.00  | 5.0            |                |      | 695          | 7.4           | 2.00  | 2.03           |                      |      |  |  |
| 326          | 15            | 4.27  | 5.4            |                |      | 813          | 6.3           | 1.71  | 2.37           |                      |      |  |  |
| 348          | 14            | 4.00  | 5.6            |                |      | 869          | 5.9           | 1.60  | 2.53           |                      |      |  |  |
| 412          | 12            | 3.37  | 6.2            |                |      |              |               |       |                |                      |      |  |  |
|              |               |       |                |                |      | 0.75kW       |               |       |                |                      |      |  |  |
| 77           | 64            | 18.06 | 1.25           | R 17<br>RF17   | 4    | 0.30         | 21596         | 4709  | 0.8            | R 167R97<br>RF167R97 | 4    |  |  |
| 89           | 55            | 15.57 | 1.44           |                |      | 0.33         | 19179         | 4182  | 0.88           |                      |      |  |  |
| 96           | 52            | 14.52 | 1.55           |                |      | 0.52         | 12185         | 2657  | 1.39           |                      |      |  |  |
| 110          | 45            | 12.69 | 1.77           |                |      | 0.60         | 10699         | 2333  | 1.58           |                      |      |  |  |
| 117          | 42            | 11.89 | 1.89           |                |      | 0.67         | 9562          | 2085  | 1.77           |                      |      |  |  |
| 132          | 37            | 10.50 | 1.9            |                |      | 0.95         | 6677          | 1456  | 2.5            |                      |      |  |  |
| 149          | 33            | 9.31  | 2.0            |                |      |              |               |       |                |                      |      |  |  |
| 161          | 31            | 8.63  | 2.1            |                |      | 0.43         | 14804         | 3228  | 0.83           | R 147R77<br>RF147R77 | 4    |  |  |
| 176          | 28            | 7.91  | 2.2            |                |      | 0.49         | 12992         | 2833  | 0.94           |                      |      |  |  |
| 184          | 27            | 7.55  | 2.2            |                |      | 0.54         | 11717         | 2555  | 1.04           |                      |      |  |  |
| 197          | 25            | 7.04  | 2.3            |                |      | 0.63         | 10140         | 2211  | 1.21           |                      |      |  |  |
| 226          | 22            | 6.15  | 2.4            |                |      | 0.71         | 8947          | 1951  | 1.37           |                      |      |  |  |
| 241          | 20            | 5.76  | 2.6            |                |      | 0.82         | 7819          | 1705  | 1.56           |                      |      |  |  |
| 273          | 18            | 5.09  | 2.7            |                |      | 0.90         | 7044          | 1536  | 1.73           |                      |      |  |  |
| 308          | 16            | 4.51  | 2.8            |                |      | 1.0          | 6095          | 1329  | 2.0            |                      |      |  |  |
| 363          | 14            | 3.83  | 3.1            |                |      | 1.2          | 5347          | 1166  | 2.3            |                      |      |  |  |
|              |               |       |                |                |      |              |               |       |                |                      |      |  |  |
| 171          | 30            | 5.18  | 2.3            | RX 67<br>RXF67 | 6    | 0.67         | 9507          | 2073  | 0.79           | R 137R77<br>RF137R77 | 4    |  |  |
| 195          | 26            | 4.53  | 2.9            |                |      | 0.7          | 8544          | 1863  | 0.88           |                      |      |  |  |
| 206          | 25            | 4.30  | 3.0            |                |      | 0.76         | 8434          | 1839  | 0.89           |                      |      |  |  |
| 235          | 22            | 3.77  | 3.7            |                |      | 0.87         | 7287          | 1589  | 1.03           |                      |      |  |  |
|              |               |       |                |                |      | 0.9          | 7273          | 1586  | 1.03           |                      |      |  |  |
| 268          | 19            | 5.18  | 3.7            | RX 67<br>RXF67 | 4    | 0.99         | 6407          | 1397  | 1.17           |                      |      |  |  |
| 307          | 17            | 4.53  | 4.6            |                |      | 1.0          | 6237          | 1360  | 1.21           |                      |      |  |  |
| 323          | 16            | 4.30  | 4.7            |                |      | 1.1          | 5632          | 1228  | 1.34           |                      |      |  |  |
| 369          | 14            | 3.77  | 5.9            |                |      | 1.2          | 5623          | 1226  | 1.34           |                      |      |  |  |
| 434          | 12            | 3.20  | 7.9            |                |      | 1.3          | 4999          | 1090  | 1.50           |                      |      |  |  |
| 481          | 11            | 2.89  | 9.3            |                |      | 1.5          | 4361          | 951   | 1.72           |                      |      |  |  |
| 547          | 9.4           | 2.54  | 12             |                |      | 1.7          | 3811          | 831   | 1.97           |                      |      |  |  |
| 579          | 8.9           | 2.40  | 13             |                |      | 1.9          | 3348          | 730   | 2.2            |                      |      |  |  |
| 681          | 7.6           | 2.04  | 17             |                |      |              |               |       |                |                      |      |  |  |
| 747          | 6.9           | 1.86  | 17             |                |      | 1.3          | 5022          | 1095  | 0.80           | R 107R77<br>RF107R77 | 4    |  |  |
| 863          | 6.0           | 1.61  | 18             |                |      | 1.4          | 4783          | 1043  | 0.85           |                      |      |  |  |
|              |               |       |                |                |      | 1.5          | 4251          | 927   | 0.95           |                      |      |  |  |
| 203          | 25            | 4.35  | 2.5            | RX 57<br>RXF57 | 6    | 1.6          | 4072          | 888   | 0.99           |                      |      |  |  |
| 234          | 22            | 3.79  | 2.9            |                |      | 1.7          | 3724          | 812   | 1.09           |                      |      |  |  |
| 249          | 21            | 3.55  | 3.1            |                |      | 1.8          | 3609          | 787   | 1.12           |                      |      |  |  |
| 282          | 18            | 3.14  | 3.3            |                |      | 3.9          | 1637          | 357   | 2.5            |                      |      |  |  |
| 304          | 17            | 2.91  | 3.7            |                |      | 4.4          | 1435          | 313   | 2.8            |                      |      |  |  |
|              |               |       |                |                |      |              |               |       |                |                      |      |  |  |
|              |               |       |                |                |      | 2.2          | 2894          | 631   | 0.97           | R 97R57<br>RF97R57   | 4    |  |  |
|              |               |       |                |                |      | 2.5          | 2568          | 560   | 1.10           |                      |      |  |  |
|              |               |       |                |                |      | 2.9          | 2220          | 484   | 1.27           |                      |      |  |  |
|              |               |       |                |                |      | 3.2          | 1972          | 430   | 1.43           |                      |      |  |  |
|              |               |       |                |                |      | 3.7          | 1738          | 379   | 1.62           |                      |      |  |  |
|              |               |       |                |                |      | 4.1          | 1541          | 336   | 1.83           |                      |      |  |  |
|              |               |       |                |                |      | 4.7          | 1357          | 296   | 2.1            |                      |      |  |  |
|              |               |       |                |                |      | 5.6          | 1142          | 249   | 2.5            |                      |      |  |  |

R



R

| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type       | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>0.75kW</b>         |                     |            |                         |                    |           | <b>0.75kW</b>         |                     |            |                         |              |           |
| 3.5                   | 1816                | 396        | 0.80                    | R 87R57<br>RF87R57 | 4<br>4    | 13                    | 516                 | 106.58     | 0.82                    | R 57<br>RF57 | 4<br>4    |
| 3.9                   | 1656                | 361        | 0.91                    |                    |           | 14                    | 479                 | 98.99      | 0.88                    |              |           |
| 4.0                   | 1610                | 351        | 1.04                    |                    |           | 15                    | 435                 | 89.71      | 0.97                    |              |           |
| 4.6                   | 1399                | 305        | 1.19                    |                    |           | 17                    | 390                 | 80.55      | 1.08                    |              |           |
| 4.7                   | 1376                | 300        | 1.35                    |                    |           | 20                    | 335                 | 69.23      | 1.26                    |              |           |
| 5.2                   | 1224                | 267        | 1.70                    |                    |           | 21                    | 314                 | 64.85      | 1.35                    |              |           |
| 5.4                   | 1174                | 256        | 2.0                     |                    |           | 24                    | 277                 | 57.29      | 1.52                    |              |           |
| 5.9                   | 1078                | 235        | 2.4                     |                    |           | 26                    | 258                 | 53.22      | 1.64                    |              |           |
| 2.8                   | 2445                | 245.50     | 1.65                    | R 107<br>RF107     | 8<br>8    | 29                    | 234                 | 48.23      | 1.81                    |              |           |
| 3.0                   | 2259                | 226.11     | 1.81                    |                    |           | 32                    | 210                 | 43.30      | 2.0                     |              |           |
| 3.4                   | 1995                | 200.87     | 2.0                     |                    |           | 37                    | 181                 | 37.30      | 2.3                     |              |           |
| 3.1                   | 2138                | 215.94     | 1.32                    | R 97<br>RF97       | 8<br>8    | 40                    | 170                 | 35.07      | 2.5                     |              |           |
| 3.7                   | 1841                | 185.97     | 1.53                    |                    |           | 46                    | 146                 | 30.18      | 2.9                     |              |           |
| 4.0                   | 1674                | 169.06     | 1.68                    |                    |           | 52                    | 131                 | 26.97      | 3.2                     |              |           |
| 3.6                   | 1901                | 256.89     | 1.49                    | R 97<br>RF97       | 6<br>6    | 53                    | 130                 | 26.31      | 3.3                     |              |           |
| 3.8                   | 1782                | 240.83     | 1.58                    |                    |           | 56                    | 124                 | 24.99      | 3.4                     |              |           |
| 4.2                   | 1598                | 215.94     | 1.76                    |                    |           | 63                    | 108                 | 21.93      | 3.9                     |              |           |
| 4.8                   | 1403                | 289.60     | 2.0                     | R 97<br>RF97       | 4<br>4    | 75                    | 92                  | 18.60      | 4.6                     |              |           |
| 5.4                   | 1244                | 256.89     | 2.3                     |                    |           | 20                    | 332                 | 68.54      | 0.85                    | R 47<br>RF47 | 4<br>4    |
| 5.8                   | 1167                | 240.83     | 2.4                     |                    |           | 22                    | 311                 | 64.21      | 0.91                    |              |           |
| 6.4                   | 1046                | 215.94     | 2.7                     |                    |           | 25                    | 275                 | 56.73      | 1.03                    |              |           |
| 7.5                   | 901                 | 185.97     | 3.1                     |                    |           | 26                    | 255                 | 52.69      | 1.10                    |              |           |
| 8.2                   | 819                 | 169.06     | 3.4                     |                    |           | 29                    | 231                 | 47.75      | 1.22                    |              |           |
| 4.2                   | 1602                | 216.54     | 0.91                    | R 87<br>RF87       | 6<br>6    | 32                    | 208                 | 42.87      | 1.36                    |              |           |
| 4.4                   | 1522                | 205.71     | 0.96                    |                    |           | 38                    | 179                 | 36.93      | 1.58                    |              |           |
| 5.0                   | 1345                | 181.77     | 1.08                    |                    |           | 40                    | 168                 | 34.73      | 1.68                    |              |           |
| 5.9                   | 1149                | 155.34     | 1.27                    |                    |           | 47                    | 145                 | 29.88      | 1.95                    |              |           |
| 6.4                   | 1054                | 142.41     | 1.38                    |                    |           | 52                    | 130                 | 26.74      | 2.2                     |              |           |
| 5.6                   | 1194                | 246.54     | 1.22                    | R 87<br>RF87       | 4<br>4    | 53                    | 129                 | 26.70      | 2.2                     |              |           |
| 6.4                   | 1049                | 216.54     | 1.39                    |                    |           | 59                    | 114                 | 23.59      | 2.5                     |              |           |
| 6.8                   | 996                 | 205.71     | 1.46                    |                    |           | 60                    | 113                 | 23.28      | 2.5                     |              |           |
| 7.6                   | 880                 | 181.77     | 1.65                    |                    |           | 64                    | 106                 | 21.81      | 2.7                     |              |           |
| 8.9                   | 752                 | 155.34     | 1.94                    |                    |           | 72                    | 93                  | 19.27      | 3.0                     |              |           |
| 9.8                   | 690                 | 142.41     | 2.1                     |                    |           | 78                    | 87                  | 17.89      | 3.1                     |              |           |
| 11                    | 605                 | 124.97     | 2.4                     |                    |           | 86                    | 79                  | 16.22      | 3.3                     |              |           |
| 12                    | 574                 | 118.43     | 2.5                     |                    |           | 29                    | 233                 | 48.08      | 0.81                    | R 37<br>RF37 | 4<br>4    |
| 13                    | 502                 | 103.65     | 2.9                     |                    |           | 31                    | 217                 | 44.81      | 0.87                    |              |           |
| 15                    | 452                 | 93.38      | 3.2                     |                    |           | 35                    | 190                 | 39.17      | 0.99                    |              |           |
| 8.3                   | 807                 | 166.59     | 0.96                    | R 77<br>RF77       | 4<br>4    | 38                    | 178                 | 36.72      | 1.06                    |              |           |
| 9.5                   | 706                 | 145.67     | 1.09                    |                    |           | 43                    | 157                 | 32.40      | 1.20                    |              |           |
| 10                    | 670                 | 138.39     | 1.15                    |                    |           | 48                    | 139                 | 28.73      | 1.35                    |              |           |
| 11                    | 588                 | 121.42     | 1.31                    |                    |           | 57                    | 118                 | 24.42      | 1.59                    |              |           |
| 13                    | 499                 | 102.99     | 1.55                    |                    |           | 62                    | 110                 | 22.27      | 1.71                    |              |           |
| 15                    | 450                 | 92.97      | 1.71                    |                    |           | 72                    | 96                  | 19.31      | 1.97                    |              |           |
| 17                    | 396                 | 81.80      | 1.95                    |                    |           | 77                    | 89                  | 18.05      | 2.1                     |              |           |
| 18                    | 375                 | 77.24      | 2.1                     |                    |           | 89                    | 77                  | 15.60      | 2.4                     |              |           |
| 21                    | 319                 | 65.77      | 2.4                     |                    |           | 105                   | 66                  | 13.25      | 2.7                     |              |           |
| 25                    | 273                 | 56.38      | 2.8                     |                    |           | 117                   | 59                  | 11.83      | 2.9                     |              |           |
| 27                    | 247                 | 50.90      | 3.1                     |                    |           | 137                   | 50                  | 10.11      | 3.2                     |              |           |
| 31                    | 217                 | 44.78      | 3.6                     |                    |           | 147                   | 47                  | 9.47       | 3.4                     |              |           |
| 33                    | 205                 | 42.29      | 3.8                     |                    |           | 48                    | 139                 | 28.78      | 0.88                    | R 27<br>RF27 | 4<br>4    |
| 11                    | 625                 | 128.97     | 0.90                    | R 67<br>RF67       | 4<br>4    | 57                    | 119                 | 24.47      | 1.03                    |              |           |
| 12                    | 552                 | 113.94     | 1.02                    |                    |           | 62                    | 110                 | 22.32      | 1.11                    |              |           |
| 13                    | 513                 | 105.83     | 1.10                    |                    |           | 72                    | 96                  | 19.35      | 1.28                    |              |           |
| 14                    | 465                 | 95.91      | 1.21                    |                    |           | 77                    | 89                  | 18.08      | 1.37                    |              |           |
| 16                    | 417                 | 86.11      | 1.35                    |                    |           | 89                    | 77                  | 15.63      | 1.58                    |              |           |
| 19                    | 359                 | 74.17      | 1.57                    |                    |           | 105                   | 66                  | 13.28      | 1.86                    |              |           |
| 20                    | 338                 | 69.75      | 1.67                    |                    |           | 117                   | 59                  | 11.86      | 2.1                     |              |           |
| 23                    | 297                 | 61.26      | 1.90                    |                    |           | 137                   | 50                  | 10.13      | 2.3                     |              |           |
| 24                    | 276                 | 56.89      | 2.0                     |                    |           | 148                   | 47                  | 9.41       | 2.5                     |              |           |
| 27                    | 250                 | 51.56      | 2.3                     |                    |           | 170                   | 40                  | 8.16       | 2.7                     |              |           |
| 30                    | 224                 | 46.29      | 2.5                     |                    |           | 182                   | 38                  | 7.63       | 2.8                     |              |           |
|                       |                     |            |                         |                    |           | 211                   | 33                  | 6.59       | 3.1                     |              |           |
|                       |                     |            |                         |                    |           | 248                   | 28                  | 5.60       | 3.4                     |              |           |
|                       |                     |            |                         |                    |           | 278                   | 25                  | 5.00       | 3.6                     |              |           |





| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type         | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|----------------|-----------|-----------------------|---------------------|------------|-------------------------|----------------------|-----------|
| <b>0.75kW</b>         |                     |            |                         |                |           | <b>1.1kW</b>          |                     |            |                         |                      |           |
| 77                    | 89                  | 18.06      | 0.89                    | R 17<br>RF17   | 4         | 0.53                  | 17744               | 2657       | 0.95                    | R 167R97<br>RF167R97 | 4         |
| 89                    | 77                  | 15.57      | 1.04                    |                |           | 0.60                  | 15580               | 2333       | 1.09                    |                      |           |
| 96                    | 72                  | 14.52      | 1.11                    |                |           | 0.67                  | 13924               | 2085       | 1.22                    |                      |           |
| 110                   | 63                  | 12.69      | 1.27                    |                |           | 0.75                  | 12535               | 1877       | 1.35                    |                      |           |
| 117                   | 59                  | 11.89      | 1.36                    |                |           | 0.84                  | 11153               | 1670       | 1.52                    |                      |           |
| 132                   | 52                  | 10.50      | 1.41                    |                |           | 0.96                  | 9723                | 1456       | 1.74                    |                      |           |
| 149                   | 46                  | 9.31       | 1.47                    |                |           | 1.1                   | 8655                | 1296       | 2.0                     | R 147R77<br>RF147R77 | 4         |
| 176                   | 39                  | 7.91       | 1.48                    |                |           | 1.2                   | 7593                | 1137       | 2.2                     |                      |           |
| 184                   | 37                  | 7.55       | 1.57                    |                |           | 0.63                  | 14765               | 2211       | 0.83                    |                      |           |
| 197                   | 35                  | 7.04       | 1.67                    |                |           | 0.72                  | 13029               | 1951       | 0.94                    |                      |           |
| 226                   | 30                  | 6.15       | 1.73                    |                |           | 0.82                  | 11386               | 1705       | 1.07                    |                      |           |
| 241                   | 28                  | 5.76       | 1.75                    |                |           | 0.91                  | 10258               | 1536       | 1.19                    |                      |           |
| 273                   | 25                  | 5.09       | 1.90                    |                |           | 1.1                   | 8875                | 1329       | 1.38                    |                      |           |
| 308                   | 22                  | 4.51       | 2.0                     |                |           | 1.2                   | 7787                | 1166       | 1.57                    |                      |           |
| 363                   | 19                  | 3.83       | 2.2                     |                |           | 1.4                   | 6872                | 1029       | 1.78                    |                      |           |
| 201                   | 35                  | 4.53       | 2.2                     | RX 67<br>RXF67 | 6         | 1.6                   | 5937                | 889        | 2.1                     |                      |           |
| 212                   | 33                  | 4.30       | 2.3                     |                |           | 1.8                   | 5236                | 784        | 2.3                     |                      |           |
| 241                   | 29                  | 3.77       | 2.8                     |                |           | 2.0                   | 4641                | 695        | 2.6                     |                      |           |
| 284                   | 25                  | 3.20       | 3.8                     |                |           | 1.0                   | 9082                | 1360       | 0.83                    | R 137R77<br>RF137R77 | 4         |
| 268                   | 26                  | 5.18       | 2.7                     | RX 67<br>RXF67 | 4         | 1.1                   | 8201                | 1228       | 0.92                    |                      |           |
| 307                   | 23                  | 4.53       | 3.4                     |                |           | 1.2                   | 8187                | 1226       | 0.92                    |                      |           |
| 323                   | 22                  | 4.30       | 3.5                     |                |           | 1.3                   | 7279                | 1090       | 1.03                    |                      |           |
| 369                   | 19                  | 3.77       | 4.3                     |                |           | 1.3                   | 7212                | 1080       | 1.04                    |                      |           |
| 434                   | 16                  | 3.20       | 5.8                     |                |           | 1.4                   | 6812                | 1020       | 1.10                    |                      |           |
| 481                   | 15                  | 2.89       | 6.8                     |                |           | 1.5                   | 6351                | 951        | 1.18                    |                      |           |
| 547                   | 13                  | 2.54       | 8.6                     |                |           | 1.6                   | 5803                | 869        | 1.30                    |                      |           |
| 579                   | 12                  | 2.40       | 9.5                     |                |           | 1.7                   | 5550                | 831        | 1.36                    |                      |           |
| 681                   | 10                  | 2.04       | 12                      |                |           | 1.9                   | 4875                | 730        | 1.54                    |                      |           |
| 747                   | 9                   | 1.86       | 13                      |                |           | 2.2                   | 4201                | 629        | 1.79                    |                      |           |
| 863                   | 8                   | 1.61       | 13                      |                |           | 2.6                   | 3666                | 549        | 2.1                     |                      |           |
| 240                   | 29                  | 3.79       | 2.2                     | RX 57<br>RXF57 | 6         | 2.9                   | 3272                | 490        | 2.3                     |                      |           |
| 256                   | 27                  | 3.55       | 2.4                     |                |           | 2.0                   | 4621                | 692        | 0.87                    | R 107R77<br>RF107R77 | 4         |
| 290                   | 24                  | 3.14       | 2.5                     |                |           | 2.3                   | 3994                | 598        | 1.01                    |                      |           |
| 313                   | 22                  | 2.91       | 2.8                     |                |           | 2.6                   | 3539                | 530        | 1.14                    |                      |           |
| 345                   | 20                  | 2.64       | 3.2                     |                |           | 2.9                   | 3199                | 479        | 1.26                    |                      |           |
| 320                   | 22                  | 4.35       | 2.9                     | RX 57<br>RXF57 | 4         | 3.4                   | 2711                | 406        | 1.49                    |                      |           |
| 367                   | 19                  | 3.79       | 3.4                     |                |           | 3.9                   | 2384                | 357        | 1.70                    |                      |           |
| 392                   | 18                  | 3.55       | 3.6                     |                |           | 4.5                   | 2090                | 313        | 1.93                    |                      |           |
| 443                   | 16                  | 3.14       | 3.9                     |                |           | 5.1                   | 1850                | 277        | 2.2                     |                      |           |
| 478                   | 15                  | 2.91       | 4.3                     |                |           | 5.7                   | 1636                | 245        | 2.5                     |                      |           |
| 527                   | 13                  | 2.64       | 4.9                     |                |           | 3.3                   | 2872                | 430        | 0.98                    | R 97R57<br>RF97R57   | 4         |
| 586                   | 12                  | 2.37       | 5.4                     |                |           | 3.7                   | 2531                | 379        | 1.11                    |                      |           |
| 681                   | 11                  | 2.04       | 6.3                     |                |           | 4.2                   | 2244                | 336        | 1.26                    |                      |           |
| 724                   | 10                  | 1.92       | 6.7                     |                |           | 4.7                   | 1977                | 296        | 1.43                    |                      |           |
| 842                   | 9                   | 1.65       | 7.8                     |                |           | 5.6                   | 1663                | 249        | 1.70                    |                      |           |
| 939                   | 8                   | 1.48       | 8.6                     |                |           | 6.0                   | 1563                | 234        | 1.80                    |                      |           |
| 1069                  | 7                   | 1.30       | 9.0                     |                |           | 6.7                   | 1396                | 209        | 2.0                     |                      |           |
| 456                   | 15                  | 3.05       | 0.97                    | RX 37<br>RXF37 | 4         | 5.2                   | 1783                | 267        | 0.82                    | R 87R57<br>RF87R57   | 4         |
| 527                   | 13                  | 2.64       | 1.13                    |                |           | 5.5                   | 1710                | 256        | 0.85                    |                      |           |
| 621                   | 11                  | 2.24       | 1.33                    |                |           | 6.0                   | 1569                | 235        | 0.93                    |                      |           |
| 695                   | 10                  | 2.00       | 1.49                    |                |           | 6.1                   | 1543                | 231        | 0.94                    |                      |           |
| 813                   | 9                   | 1.71       | 1.74                    |                |           | 6.7                   | 1389                | 208        | 1.05                    |                      |           |
| 869                   | 8                   | 1.60       | 1.86                    |                |           | 7.2                   | 1302                | 195        | 1.12                    |                      |           |
|                       |                     |            |                         |                |           | 2.8                   | 3586                | 245.50     | 1.13                    | R 107<br>RF107       | 8         |
|                       |                     |            |                         |                |           | 3.0                   | 3283                | 226.11     | 1.23                    |                      |           |
|                       |                     |            |                         |                |           | 3.4                   | 2901                | 200.87     | 1.39                    |                      |           |
|                       |                     |            |                         |                |           | 4.0                   | 2461                | 167.29     | 1.64                    |                      |           |





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| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>1.1kW</b>          |                     |            |                         |              |           | <b>1.1kW</b>          |                     |            |                         |              |           |
| 3.5                   | 2788                | 256.89     | 1.02                    | R 97<br>RF97 | 6         | 20                    | 488                 | 69.23      | 0.87                    | R 57<br>RF57 | 4         |
| 3.8                   | 2613                | 240.83     | 1.08                    |              | 6         | 22                    | 457                 | 64.85      | 0.92                    |              |           |
| 4.2                   | 2343                | 215.94     | 1.20                    |              |           | 24                    | 404                 | 57.29      | 1.05                    |              |           |
| 4.9                   | 2018                | 185.97     | 1.39                    |              |           | 26                    | 375                 | 53.22      | 1.13                    |              |           |
| 5.4                   | 1812                | 256.89     | 1.56                    | R 97<br>RF97 | 4         | 29                    | 340                 | 48.23      | 1.24                    |              |           |
| 5.8                   | 1699                | 240.83     | 1.66                    |              |           | 32                    | 305                 | 43.30      | 1.39                    |              |           |
| 6.5                   | 1523                | 215.94     | 1.85                    |              |           | 38                    | 263                 | 37.30      | 1.61                    |              |           |
| 7.5                   | 1312                | 185.97     | 2.1                     |              |           | 40                    | 247                 | 35.07      | 1.71                    |              |           |
| 8.3                   | 1192                | 169.06     | 2.4                     |              |           | 46                    | 213                 | 30.18      | 1.99                    |              |           |
| 9.3                   | 1064                | 150.78     | 2.7                     |              |           | 52                    | 190                 | 26.97      | 2.2                     |              |           |
| 11                    | 894                 | 126.75     | 3.2                     |              |           | 53                    | 186                 | 26.31      | 2.3                     |              |           |
| 12                    | 822                 | 116.48     | 3.4                     |              |           | 56                    | 176                 | 24.99      | 2.4                     |              |           |
| 6.5                   | 1527                | 216.54     | 0.95                    | R 87<br>RF87 | 4         | 64                    | 155                 | 21.93      | 2.7                     |              |           |
| 6.8                   | 1451                | 205.71     | 1.00                    |              |           | 75                    | 131                 | 18.60      | 3.2                     |              |           |
| 7.7                   | 1282                | 181.77     | 1.14                    |              |           | 83                    | 118                 | 16.79      | 3.6                     |              |           |
| 9.0                   | 1096                | 155.34     | 1.33                    |              |           | 29                    | 337                 | 47.75      | 0.84                    | R 47<br>RF47 | 4         |
| 9.8                   | 1004                | 142.41     | 1.45                    |              |           | 33                    | 302                 | 42.87      | 0.93                    |              |           |
| 11                    | 881                 | 124.97     | 1.65                    |              |           | 38                    | 260                 | 36.93      | 1.08                    |              |           |
| 12                    | 835                 | 118.43     | 1.74                    |              |           | 40                    | 245                 | 34.73      | 1.15                    |              |           |
| 14                    | 731                 | 103.65     | 1.99                    |              |           | 47                    | 211                 | 29.88      | 1.34                    |              |           |
| 15                    | 659                 | 93.38      | 2.2                     |              |           | 52                    | 188                 | 26.70      | 1.50                    |              |           |
| 17                    | 578                 | 81.92      | 2.5                     |              |           | 59                    | 166                 | 23.59      | 1.69                    |              |           |
| 19                    | 510                 | 72.37      | 2.9                     |              |           | 60                    | 164                 | 23.28      | 1.72                    |              |           |
| 22                    | 448                 | 63.50      | 3.3                     |              |           | 64                    | 154                 | 21.81      | 1.83                    |              |           |
| 23                    | 424                 | 60.18      | 3.4                     |              |           | 73                    | 136                 | 19.27      | 2.0                     |              |           |
| 27                    | 372                 | 52.67      | 3.9                     |              |           | 78                    | 126                 | 17.89      | 2.2                     |              |           |
| 12                    | 856                 | 121.42     | 0.90                    | R 77<br>RF77 | 4         | 86                    | 114                 | 16.22      | 2.3                     |              |           |
| 14                    | 726                 | 102.99     | 1.06                    |              |           | 96                    | 103                 | 14.56      | 2.4                     |              |           |
| 15                    | 656                 | 92.97      | 1.18                    |              |           | 112                   | 88                  | 12.54      | 2.7                     |              |           |
| 17                    | 577                 | 81.80      | 1.34                    |              |           | 119                   | 83                  | 11.79      | 2.8                     |              |           |
| 18                    | 545                 | 77.24      | 1.41                    |              |           | 138                   | 72                  | 10.15      | 3.0                     |              |           |
| 21                    | 464                 | 65.77      | 1.66                    |              |           | 154                   | 64                  | 9.07       | 3.2                     |              |           |
| 25                    | 398                 | 56.38      | 1.94                    |              |           | 43                    | 229                 | 32.40      | 0.82                    | R 37<br>RF37 | 4         |
| 28                    | 359                 | 50.90      | 2.1                     |              |           | 49                    | 203                 | 28.73      | 0.93                    |              |           |
| 31                    | 316                 | 44.78      | 2.4                     |              |           | 57                    | 172                 | 24.42      | 1.09                    |              |           |
| 33                    | 298                 | 42.29      | 2.6                     |              |           | 73                    | 139                 | 19.31      | 1.35                    |              |           |
| 39                    | 254                 | 36.01      | 3.0                     |              |           | 78                    | 130                 | 18.05      | 1.45                    |              |           |
| 43                    | 231                 | 32.72      | 3.3                     |              |           | 90                    | 112                 | 15.60      | 1.67                    |              |           |
| 16                    | 607                 | 86.11      | 0.93                    | R 67<br>RF67 | 4         | 106                   | 95                  | 13.25      | 1.87                    |              |           |
| 19                    | 523                 | 74.17      | 1.08                    |              |           | 118                   | 85                  | 11.83      | 2.0                     |              |           |
| 20                    | 492                 | 69.75      | 1.15                    |              |           | 138                   | 73                  | 10.11      | 2.2                     |              |           |
| 23                    | 432                 | 61.26      | 1.31                    |              |           | 148                   | 68                  | 9.47       | 2.3                     |              |           |
| 25                    | 401                 | 56.89      | 1.41                    |              |           | 176                   | 57                  | 7.97       | 2.6                     |              |           |
| 27                    | 364                 | 51.56      | 1.55                    |              |           | 210                   | 48                  | 6.67       | 2.8                     |              |           |
| 30                    | 326                 | 46.29      | 1.73                    |              |           | 247                   | 41                  | 5.67       | 3.3                     |              |           |
| 35                    | 281                 | 39.88      | 1.9                     |              |           | 277                   | 36                  | 5.06       | 3.5                     |              |           |
| 37                    | 265                 | 37.50      | 2.0                     |              |           | 72                    | 139                 | 19.35      | 0.88                    | R 27<br>RF27 | 4         |
| 43                    | 228                 | 32.27      | 2.2                     |              |           | 77                    | 130                 | 18.08      | 0.94                    |              |           |
| 49                    | 203                 | 28.83      | 2.4                     |              |           | 90                    | 113                 | 15.63      | 1.09                    |              |           |
| 50                    | 201                 | 28.13      | 2.5                     |              |           | 105                   | 96                  | 13.28      | 1.25                    |              |           |
| 52                    | 192                 | 26.72      | 2.6                     |              |           | 118                   | 85                  | 11.86      | 1.42                    |              |           |
| 60                    | 169                 | 23.44      | 3.1                     |              |           | 138                   | 73                  | 10.13      | 1.57                    |              |           |
| 70                    | 143                 | 19.89      | 3.9                     |              |           | 172                   | 59                  | 8.16       | 1.86                    |              |           |
|                       |                     |            |                         |              |           | 183                   | 55                  | 7.63       | 1.92                    |              |           |
|                       |                     |            |                         |              |           | 212                   | 47                  | 6.59       | 2.1                     |              |           |
|                       |                     |            |                         |              |           | 250                   | 40                  | 5.60       | 2.3                     |              |           |
|                       |                     |            |                         |              |           | 280                   | 36                  | 5.00       | 2.5                     |              |           |
|                       |                     |            |                         |              |           | 328                   | 31                  | 4.27       | 2.7                     |              |           |
|                       |                     |            |                         |              |           | 350                   | 29                  | 4.00       | 2.8                     |              |           |
|                       |                     |            |                         |              |           | 415                   | 24                  | 3.37       | 3.1                     |              |           |



| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>1.1kW</b>          |                     |            |                         |              |           | <b>1.5kW</b>          |                     |            |                         |              |           |
| 249                   | 41                  | 5.63       | 2.5                     | RX 77        | 4         | 1.3                   | 10038               | 1090       | 0.75                    |              |           |
| 262                   | 39                  | 5.35       | 2.5                     | RXF77        | 4         | 1.4                   | 9393                | 1020       | 0.80                    |              |           |
| 296                   | 35                  | 4.73       | 3.3                     |              |           | 1.5                   | 8758                | 951        | 0.86                    |              |           |
|                       |                     |            |                         |              |           | 1.6                   | 8003                | 869        | 0.94                    |              |           |
| 201                   | 51                  | 4.53       | 1.50                    | RX 67        | 6         | 1.7                   | 7653                | 831        | 0.98                    |              |           |
| 212                   | 49                  | 4.30       | 1.55                    | RXF67        | 6         | 1.9                   | 6723                | 730        | 1.12                    |              |           |
| 241                   | 43                  | 3.77       | 1.92                    |              |           | 2.0                   | 6299                | 684        | 1.19                    | R 137R77     | 4         |
|                       |                     |            |                         |              |           | 2.2                   | 5792                | 629        | 1.30                    | RF137R77     | 4         |
| 309                   | 33                  | 4.53       | 2.3                     |              |           | 2.4                   | 5479                | 595        | 1.37                    |              |           |
| 326                   | 32                  | 4.30       | 2.4                     |              |           | 2.6                   | 5056                | 549        | 1.49                    |              |           |
| 371                   | 28                  | 3.77       | 2.9                     |              |           | 2.9                   | 4512                | 490        | 1.67                    |              |           |
| 438                   | 24                  | 3.20       | 4.0                     |              |           | 3.3                   | 3941                | 428        | 1.91                    |              |           |
| 484                   | 21                  | 2.89       | 4.7                     | RX 67        | 4         | 3.7                   | 3444                | 374        | 2.2                     |              |           |
| 551                   | 19                  | 2.54       | 5.9                     | RXF67        | 4         | 4.4                   | 2919                | 317        | 2.6                     |              |           |
| 583                   | 18                  | 2.40       | 6.6                     |              |           |                       |                     |            |                         |              |           |
| 686                   | 15                  | 2.04       | 8.4                     |              |           | 2.6                   | 4827                | 530        | 0.84                    |              |           |
| 753                   | 14                  | 1.86       | 8.7                     |              |           | 2.7                   | 4644                | 510        | 0.87                    |              |           |
| 870                   | 12                  | 1.61       | 9.1                     |              |           | 2.9                   | 4362                | 479        | 0.93                    |              |           |
| 1000                  | 10                  | 1.40       | 9.5                     |              |           | 3.0                   | 4216                | 463        | 0.96                    | R 107R77     | 4         |
|                       |                     |            |                         |              |           | 3.4                   | 3697                | 406        | 1.09                    | RF107R77     | 4         |
| 240                   | 43                  | 3.79       | 1.5                     |              |           | 3.9                   | 3251                | 357        | 1.24                    |              |           |
| 256                   | 40                  | 3.55       | 1.6                     | RX 57        | 6         | 4.5                   | 2850                | 313        | 1.42                    |              |           |
| 290                   | 36                  | 3.14       | 1.7                     | RXF57        | 6         |                       |                     |            |                         |              |           |
| 313                   | 33                  | 2.91       | 1.9                     |              |           | 4.2                   | 3060                | 336        | 0.92                    |              |           |
| 345                   | 30                  | 2.64       | 2.2                     |              |           | 4.7                   | 2696                | 296        | 1.05                    |              |           |
|                       |                     |            |                         |              |           | 5.6                   | 2268                | 249        | 1.24                    | R 97R57      | 4         |
| 369                   | 28                  | 3.79       | 2.3                     |              |           | 6.0                   | 2131                | 234        | 1.32                    | RF97R57      | 4         |
| 394                   | 26                  | 3.55       | 2.5                     |              |           | 6.7                   | 1903                | 209        | 1.48                    |              |           |
| 446                   | 23                  | 3.14       | 2.6                     |              |           |                       |                     |            |                         |              |           |
| 481                   | 21                  | 2.91       | 2.9                     |              |           | 3.1                   | 4413                | 226.11     | 0.92                    |              |           |
| 530                   | 19                  | 2.64       | 3.3                     | RX 57        | 4         | 3.5                   | 3920                | 200.87     | 1.03                    | R 107        | 8         |
| 591                   | 17                  | 2.37       | 3.7                     | RXF57        | 4         | 4.1                   | 3265                | 167.29     | 1.24                    | RF107        | 8         |
| 686                   | 15                  | 2.04       | 4.3                     |              |           | 4.4                   | 3045                | 156.04     | 1.32                    |              |           |
| 729                   | 14                  | 1.92       | 4.6                     |              |           |                       |                     |            |                         |              |           |
| 848                   | 12                  | 1.65       | 5.3                     |              |           | 3.7                   | 3593                | 245.50     | 1.12                    |              |           |
| 946                   | 11                  | 1.48       | 5.9                     |              |           | 4.1                   | 3309                | 226.11     | 1.22                    |              |           |
| 1077                  | 10                  | 1.30       | 6.2                     |              |           | 4.6                   | 2940                | 200.87     | 1.37                    | R 107        | 6         |
|                       |                     |            |                         |              |           | 5.5                   | 2449                | 167.29     | 1.65                    | RF107        | 6         |
| 700                   | 15                  | 2.00       | 1.02                    | RX 37        | 4         | 5.8                   | 2304                | 156.04     | 1.77                    |              |           |
| 819                   | 13                  | 1.71       | 1.19                    | RXF37        | 4         | 6.6                   | 2041                | 139.47     | 1.98                    |              |           |
| 875                   | 12                  | 1.60       | 1.27                    |              |           |                       |                     |            |                         |              |           |
| <b>1.5kW</b>          |                     |            |                         |              |           | 5.4                   | 2417                | 256.89     | 1.14                    |              |           |
| 0.60                  | 21246               | 2333       | 0.80                    |              |           | 5.8                   | 2316                | 240.83     | 1.22                    |              |           |
| 0.67                  | 18987               | 2085       | 0.89                    |              |           | 6.5                   | 2077                | 215.94     | 1.36                    |              |           |
| 0.75                  | 17093               | 1877       | 0.99                    |              |           | 7.5                   | 1789                | 185.97     | 1.58                    |              |           |
| 0.84                  | 15208               | 1670       | 1.11                    | R 167R97     | 4         | 8.3                   | 1626                | 169.06     | 1.73                    | R 97         | 4         |
| 0.96                  | 13259               | 1456       | 1.28                    | RF167R97     | 4         | 9.3                   | 1450                | 150.78     | 1.94                    | RF97         | 4         |
| 1.1                   | 11802               | 1296       | 1.43                    |              |           | 11                    | 1219                | 126.75     | 2.3                     |              |           |
| 1.2                   | 10354               | 1137       | 1.63                    |              |           | 12                    | 1120                | 116.48     | 2.5                     |              |           |
| 1.4                   | 9213                | 1012       | 1.84                    |              |           | 14                    | 995                 | 103.44     | 2.8                     |              |           |
|                       |                     |            |                         |              |           | 15                    | 889                 | 92.47      | 3.2                     |              |           |
| 3.2                   | 3934                | 432        | 3.1                     | R 147R87     | 4         |                       |                     |            |                         |              |           |
| 3.8                   | 3388                | 373        | 3.6                     | RF147R87     | 4         |                       |                     |            |                         |              |           |
|                       |                     |            |                         |              |           | 7.7                   | 1748                | 181.77     | 0.83                    |              |           |
| 0.82                  | 15527               | 1705       | 0.8                     |              |           | 9.0                   | 1494                | 155.34     | 0.98                    |              |           |
| 0.91                  | 13988               | 1536       | 0.87                    |              |           | 9.8                   | 1370                | 142.41     | 1.06                    |              |           |
| 1.1                   | 12103               | 1329       | 1.01                    |              |           | 11                    | 1202                | 124.97     | 1.21                    |              |           |
| 1.2                   | 10618               | 1166       | 1.15                    |              |           | 12                    | 1139                | 118.43     | 1.28                    |              |           |
| 1.4                   | 9371                | 1029       | 1.30                    | R 147R77     | 4         | 14                    | 997                 | 103.65     | 1.46                    |              |           |
| 1.6                   | 8096                | 889        | 1.51                    | RF147R77     | 4         | 15                    | 898                 | 93.38      | 1.62                    | R 87         | 4         |
| 1.8                   | 7140                | 784        | 1.71                    |              |           | 17                    | 788                 | 81.92      | 1.85                    | RF87         | 4         |
| 2.0                   | 6329                | 695        | 1.93                    |              |           | 19                    | 696                 | 72.37      | 2.1                     |              |           |
| 2.3                   | 5528                | 607        | 2.2                     |              |           | 22                    | 611                 | 63.50      | 2.4                     |              |           |
| 2.6                   | 4981                | 547        | 2.5                     |              |           | 23                    | 579                 | 60.18      | 2.5                     |              |           |
|                       |                     |            |                         |              |           | 27                    | 507                 | 52.67      | 2.9                     |              |           |
|                       |                     |            |                         |              |           | 30                    | 456                 | 47.45      | 3.2                     |              |           |
|                       |                     |            |                         |              |           | 34                    | 400                 | 41.63      | 3.6                     |              |           |
|                       |                     |            |                         |              |           | 38                    | 353                 | 36.73      | 4.1                     |              |           |



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| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------|-----------|-----------------------|---------------------|------------|-------------------------|----------------|-----------|
| <b>1.5kW</b>          |                     |            |                         |              |           | <b>1.5kW</b>          |                     |            |                         |                |           |
| 15                    | 894                 | 92.97      | 0.86                    | R 77<br>RF77 | 4         | 73                    | 186                 | 19.31      | 1.01                    | R 37<br>RF37   | 4         |
| 17                    | 787                 | 81.80      | 0.98                    |              |           | 78                    | 174                 | 18.05      | 1.08                    |                |           |
| 18                    | 743                 | 77.24      | 1.04                    |              |           | 90                    | 150                 | 15.60      | 1.25                    |                |           |
| 21                    | 633                 | 65.77      | 1.22                    |              |           | 106                   | 127                 | 13.25      | 1.40                    |                |           |
| 25                    | 542                 | 56.38      | 1.42                    |              |           | 118                   | 114                 | 11.83      | 1.51                    |                |           |
| 28                    | 490                 | 50.90      | 1.57                    |              |           | 138                   | 97                  | 10.11      | 1.64                    |                |           |
| 31                    | 431                 | 44.78      | 1.79                    |              |           | 148                   | 91                  | 9.47       | 1.72                    |                |           |
| 33                    | 407                 | 42.29      | 1.90                    |              |           | 176                   | 77                  | 7.97       | 1.91                    |                |           |
| 39                    | 346                 | 36.01      | 2.2                     |              |           | 210                   | 64                  | 6.67       | 2.1                     |                |           |
| 43                    | 315                 | 32.72      | 2.4                     |              |           | 247                   | 55                  | 5.67       | 2.4                     |                |           |
| 49                    | 273                 | 28.35      | 2.8                     |              |           | 277                   | 49                  | 5.06       | 2.6                     |                |           |
| 57                    | 237                 | 24.67      | 3.1                     |              |           | 324                   | 42                  | 4.32       | 2.9                     |                |           |
| 60                    | 225                 | 23.37      | 3.4                     |              |           | 346                   | 39                  | 4.05       | 2.9                     |                |           |
| 65                    | 206                 | 21.43      | 3.7                     |              |           | 411                   | 33                  | 3.41       | 3.2                     |                |           |
| 74                    | 181                 | 18.80      | 4.1                     |              |           |                       |                     |            |                         |                |           |
| 23                    | 589                 | 61.26      | 0.96                    | R 67<br>RF67 | 4         | 90                    | 150                 | 15.63      | 0.81                    | R 27<br>RF27   | 4         |
| 25                    | 547                 | 56.89      | 1.03                    |              |           | 105                   | 128                 | 13.28      | 0.96                    |                |           |
| 27                    | 496                 | 51.56      | 1.14                    |              |           | 118                   | 114                 | 11.86      | 1.06                    |                |           |
| 30                    | 445                 | 46.29      | 1.27                    |              |           | 138                   | 97                  | 10.13      | 1.18                    |                |           |
| 35                    | 384                 | 39.88      | 1.47                    |              |           | 172                   | 78                  | 8.16       | 1.39                    |                |           |
| 37                    | 361                 | 37.50      | 1.56                    |              |           | 183                   | 73                  | 7.63       | 1.43                    |                |           |
| 43                    | 310                 | 32.27      | 1.82                    |              |           | 212                   | 63                  | 6.59       | 1.57                    |                |           |
| 49                    | 277                 | 28.83      | 2.0                     |              |           | 250                   | 54                  | 5.60       | 1.73                    |                |           |
| 50                    | 276                 | 28.13      | 2.0                     |              |           | 280                   | 48                  | 5.00       | 1.86                    |                |           |
| 52                    | 262                 | 26.72      | 2.1                     |              |           | 328                   | 41                  | 4.27       | 1.99                    |                |           |
| 60                    | 230                 | 23.44      | 2.4                     |              |           | 350                   | 38                  | 4.00       | 2.1                     |                |           |
| 70                    | 195                 | 19.89      | 2.9                     |              |           | 415                   | 32                  | 3.37       | 2.3                     |                |           |
| 78                    | 176                 | 17.95      | 3.2                     |              |           |                       |                     |            |                         |                |           |
| 26                    | 523                 | 53.22      | 0.8                     | R 57<br>RF57 | 4         | 249                   | 54                  | 5.63       | 1.91                    | RX 77<br>RXF77 | 4         |
| 29                    | 474                 | 48.23      | 0.9                     |              |           | 262                   | 51                  | 5.35       | 1.88                    |                |           |
| 32                    | 425                 | 43.30      | 1.0                     |              |           | 296                   | 45                  | 4.73       | 2.5                     |                |           |
| 38                    | 366                 | 37.30      | 1.15                    |              |           | 347                   | 39                  | 4.04       | 3.5                     |                |           |
| 40                    | 344                 | 35.07      | 1.23                    |              |           | 378                   | 36                  | 3.70       | 4.0                     |                |           |
| 46                    | 296                 | 30.18      | 1.43                    |              |           | 431                   | 31                  | 3.25       | 5.5                     |                |           |
| 52                    | 265                 | 26.97      | 1.60                    |              |           | 455                   | 30                  | 3.08       | 6.1                     | RX 67<br>RXF67 | 4         |
| 53                    | 258                 | 26.31      | 1.64                    |              |           | 519                   | 26                  | 2.70       | 7.8                     |                |           |
| 56                    | 245                 | 24.99      | 1.72                    |              |           | 576                   | 23                  | 2.43       | 8.6                     |                |           |
| 64                    | 215                 | 21.93      | 1.96                    |              |           | 309                   | 44                  | 4.53       | 1.77                    |                |           |
| 75                    | 183                 | 18.60      | 2.3                     |              |           | 326                   | 41                  | 4.30       | 1.82                    |                |           |
| 83                    | 165                 | 16.79      | 2.6                     |              |           | 371                   | 36                  | 3.77       | 2.3                     |                |           |
| 95                    | 145                 | 14.77      | 2.8                     |              |           | 438                   | 31                  | 3.20       | 3.1                     |                |           |
| 100                   | 137                 | 13.95      | 2.9                     |              |           | 484                   | 28                  | 2.89       | 3.6                     |                |           |
| 118                   | 117                 | 11.88      | 3.3                     |              |           | 551                   | 24                  | 2.54       | 4.5                     |                |           |
|                       |                     |            |                         |              |           | 583                   | 23                  | 2.40       | 5.0                     | RX 57<br>RXF57 | 4         |
| 38                    | 355                 | 36.93      | 0.8                     | R 47<br>RF47 | 4         | 686                   | 20                  | 2.04       | 6.4                     |                |           |
| 40                    | 334                 | 34.73      | 0.84                    |              |           | 753                   | 18                  | 1.86       | 6.6                     |                |           |
| 47                    | 287                 | 29.88      | 0.98                    |              |           | 870                   | 15                  | 1.61       | 6.9                     |                |           |
| 52                    | 257                 | 26.70      | 1.1                     |              |           | 1000                  | 13                  | 1.40       | 7.3                     |                |           |
| 59                    | 227                 | 23.59      | 1.2                     |              |           | 369                   | 36                  | 3.79       | 1.78                    |                |           |
| 60                    | 224                 | 23.28      | 1.26                    |              |           | 394                   | 34                  | 3.55       | 1.90                    |                |           |
| 64                    | 210                 | 21.81      | 1.34                    |              |           | 446                   | 30                  | 3.14       | 2.0                     |                |           |
| 73                    | 185                 | 19.27      | 1.50                    |              |           | 481                   | 28                  | 2.91       | 2.3                     |                |           |
| 78                    | 172                 | 17.89      | 1.58                    |              |           | 530                   | 25                  | 2.64       | 2.6                     |                |           |
| 86                    | 156                 | 16.22      | 1.66                    |              |           | 591                   | 23                  | 2.37       | 2.8                     |                |           |
| 96                    | 140                 | 14.56      | 1.8                     |              |           | 686                   | 20                  | 2.04       | 3.3                     |                |           |
| 112                   | 121                 | 12.54      | 1.9                     |              |           | 729                   | 18                  | 1.92       | 3.5                     |                |           |
| 119                   | 113                 | 11.79      | 2.0                     |              |           | 848                   | 16                  | 1.65       | 4.1                     |                |           |
| 138                   | 98                  | 10.15      | 2.1                     |              |           | 946                   | 14                  | 1.48       | 4.5                     |                |           |
| 154                   | 87                  | 9.07       | 2.2                     |              |           | 1077                  | 13                  | 1.30       | 4.7                     |                |           |
| 175                   | 77                  | 8.01       | 2.3                     |              |           |                       |                     |            |                         |                |           |
| 180                   | 75                  | 7.76       | 2.4                     |              |           |                       |                     |            |                         |                |           |
| 201                   | 67                  | 6.96       | 2.5                     |              |           |                       |                     |            |                         |                |           |
| 233                   | 58                  | 6.00       | 2.5                     |              |           |                       |                     |            |                         |                |           |
| 248                   | 54                  | 5.64       | 2.7                     |              |           |                       |                     |            |                         |                |           |
| 289                   | 47                  | 4.85       | 3.0                     |              |           |                       |                     |            |                         |                |           |
| 323                   | 42                  | 4.34       | 3.3                     |              |           |                       |                     |            |                         |                |           |
| 366                   | 37                  | 3.83       | 3.7                     |              |           |                       |                     |            |                         |                |           |



| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type         | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|----------------------|-----------|-----------------------|---------------------|------------|-------------------------|----------------|-----------|
| <b>2.2kW</b>          |                     |            |                         |                      |           | <b>2.2kW</b>          |                     |            |                         |                |           |
| 0.85                  | 21991               | 1670       | 0.8                     | R 167R97<br>RF167R97 | 4         | 5.8                   | 3414                | 245.50     | 1.18                    | R 107<br>RF107 | 4         |
| 0.98                  | 19173               | 1456       | 0.88                    |                      |           | 6.3                   | 3145                | 226.11     | 1.29                    |                |           |
| 1.1                   | 17066               | 1296       | 1.0                     |                      |           | 7.1                   | 2744                | 200.87     | 1.45                    |                |           |
| 1.2                   | 14972               | 1137       | 1.1                     |                      |           | 8.5                   | 2327                | 167.29     | 1.74                    |                |           |
| 1.4                   | 13326               | 1012       | 1.27                    |                      |           | 9.1                   | 2170                | 156.04     | 1.86                    |                |           |
| 1.6                   | 11483               | 872        | 1.47                    |                      |           | 10                    | 1940                | 139.47     | 2.1                     |                |           |
| 1.8                   | 10140               | 770        | 1.67                    |                      |           | 11                    | 1746                | 125.55     | 2.3                     |                |           |
| 2.1                   | 8744                | 664        | 1.9                     |                      |           | 12                    | 1581                | 113.70     | 2.6                     |                |           |
| 2.6                   | 7111                | 540        | 1.72                    | R 147R87<br>RF147R87 | 4         | 14                    | 1402                | 100.82     | 2.9                     | R 97<br>RF97   | 4         |
| 3.1                   | 6084                | 462        | 2.0                     |                      |           | 16                    | 1286                | 91.16      | 3.2                     |                |           |
| 3.3                   | 5689                | 432        | 2.1                     |                      |           | 6.6                   | 3003                | 215.94     | 0.94                    |                |           |
| 3.8                   | 4912                | 373        | 2.5                     |                      |           | 7.6                   | 2586                | 185.97     | 1.09                    |                |           |
| 4.3                   | 4346                | 330        | 2.8                     |                      |           | 8.4                   | 2351                | 169.06     | 1.20                    |                |           |
| 1.2                   | 15354               | 1166       | 0.80                    | R 147R77<br>RF147R77 | 4         | 9.4                   | 2097                | 150.78     | 1.34                    |                |           |
| 1.4                   | 13550               | 1029       | 0.90                    |                      |           | 11                    | 1763                | 126.75     | 1.60                    |                |           |
| 1.6                   | 11707               | 889        | 1.04                    |                      |           | 12                    | 1620                | 116.48     | 1.74                    |                |           |
| 1.8                   | 10324               | 784        | 1.18                    |                      |           | 14                    | 1439                | 103.44     | 1.96                    |                |           |
| 2.0                   | 9152                | 695        | 1.34                    |                      |           | 15                    | 1286                | 92.48      | 2.2                     |                |           |
| 2.3                   | 7993                | 607        | 1.53                    |                      |           | 17                    | 1156                | 83.15      | 2.4                     |                |           |
| 2.6                   | 7203                | 547        | 1.70                    |                      |           | 20                    | 1004                | 72.17      | 2.8                     |                |           |
| 3.0                   | 6321                | 480        | 1.93                    |                      |           | 22                    | 906                 | 65.12      | 3.1                     |                |           |
| 1.9                   | 9721                | 730        | 0.77                    | R 137R77<br>RF137R77 | 4         | 24                    | 832                 | 59.84      | 3.4                     |                |           |
| 2.1                   | 9108                | 684        | 0.83                    |                      |           | 27                    | 739                 | 53.14      | 3.8                     |                |           |
| 2.3                   | 8376                | 629        | 0.90                    |                      |           | 30                    | 661                 | 47.51      | 4.3                     |                |           |
| 2.4                   | 7923                | 595        | 0.95                    |                      |           | 11                    | 1738                | 124.97     | 0.84                    | R 87<br>RF87   | 4         |
| 2.6                   | 7311                | 549        | 1.03                    |                      |           | 12                    | 1647                | 118.43     | 0.88                    |                |           |
| 2.9                   | 6525                | 490        | 1.15                    |                      |           | 14                    | 1442                | 103.65     | 1.01                    |                |           |
| 3.3                   | 5699                | 428        | 1.32                    |                      |           | 15                    | 1299                | 93.38      | 1.12                    |                |           |
| 3.8                   | 4980                | 374        | 1.51                    |                      |           | 17                    | 1139                | 81.92      | 1.28                    |                |           |
| 4.5                   | 4221                | 317        | 1.78                    |                      |           | 20                    | 1007                | 72.37      | 1.45                    |                |           |
| 5.0                   | 3808                | 286        | 1.97                    |                      |           | 22                    | 883                 | 63.50      | 1.65                    |                |           |
| 5.6                   | 3377                | 250        | 2.2                     |                      |           | 24                    | 837                 | 60.18      | 1.74                    |                |           |
| 6.4                   | 2958                | 219        | 2.5                     |                      |           | 27                    | 733                 | 52.67      | 1.99                    |                |           |
| 3.9                   | 4822                | 357        | 0.84                    | R 107R77<br>RF107R77 | 4         | 30                    | 660                 | 47.45      | 2.2                     |                |           |
| 4.4                   | 4336                | 321        | 0.93                    |                      |           | 34                    | 579                 | 41.63      | 2.5                     |                |           |
| 4.5                   | 4228                | 313        | 0.96                    |                      |           | 39                    | 511                 | 36.73      | 2.9                     |                |           |
| 5.1                   | 3741                | 277        | 1.08                    |                      |           | 41                    | 478                 | 34.34      | 3.0                     |                |           |
| 5.5                   | 3458                | 256        | 1.17                    |                      |           | 44                    | 453                 | 32.57      | 3.2                     |                |           |
| 6.7                   | 2809                | 208        | 1.44                    |                      |           | 45                    | 434                 | 31.22      | 3.4                     |                |           |
| 6.0                   | 3125                | 234        | 0.90                    | R 97R57              | 4         | 51                    | 387                 | 27.81      | 3.8                     |                |           |
| 6.7                   | 2791                | 209        | 1.01                    | RF97R57              | 4         | 61                    | 325                 | 23.40      | 4.5                     |                |           |
| 3.2                   | 6212                | 223.34     | 1.21                    | R 137<br>RF137       | 8         | 66                    | 299                 | 21.51      | 4.7                     |                |           |
| 3.8                   | 5234                | 188.16     | 1.43                    |                      |           | 22                    | 915                 | 65.77      | 0.8                     | R 77<br>RF77   | 4         |
| 4.1                   | 4851                | 174.4      | 1.55                    |                      |           | 25                    | 784                 | 56.38      | 1.0                     |                |           |
| 4.5                   | 4348                | 156.31     | 1.73                    |                      |           | 28                    | 708                 | 50.90      | 1.1                     |                |           |
| 5.0                   | 3925                | 141.12     | 1.92                    |                      |           | 32                    | 623                 | 44.78      | 1.2                     |                |           |
| 5.5                   | 3565                | 128.18     | 2.1                     |                      |           | 34                    | 588                 | 42.29      | 1.31                    |                |           |
| 6.2                   | 3163                | 113.72     | 2.4                     |                      |           | 39                    | 501                 | 36.01      | 1.54                    |                |           |
| 6.9                   | 2871                | 103.2      | 2.6                     |                      |           | 43                    | 455                 | 32.72      | 1.69                    |                |           |
| 4.7                   | 4220                | 200.87     | 0.96                    | R 107<br>RF107       | 6         | 50                    | 394                 | 28.35      | 1.95                    |                |           |
| 5.6                   | 3515                | 167.29     | 1.15                    |                      |           | 58                    | 343                 | 24.67      | 2.1                     |                |           |
| 6.0                   | 3278                | 156.04     | 1.23                    |                      |           | 61                    | 325                 | 23.37      | 2.4                     |                |           |
| 6.7                   | 2930                | 139.47     | 1.38                    |                      |           | 66                    | 298                 | 21.43      | 2.6                     |                |           |
|                       |                     |            |                         |                      |           | 76                    | 261                 | 18.80      | 2.8                     |                |           |
|                       |                     |            |                         |                      |           | 80                    | 248                 | 17.82      | 3.0                     |                |           |
|                       |                     |            |                         |                      |           | 91                    | 217                 | 15.60      | 3.2                     |                |           |
|                       |                     |            |                         |                      |           | 101                   | 195                 | 14.05      | 3.5                     |                |           |

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| Output speed | Output torque | Ratio | Service factor | Type         | Pole | Output speed | Output torque | Ratio | Service factor | Type                 | Pole |                |      |                      |   |
|--------------|---------------|-------|----------------|--------------|------|--------------|---------------|-------|----------------|----------------------|------|----------------|------|----------------------|---|
| r/min        | Nm            | i     | f <sub>B</sub> | Type         | p    | r/min        | Nm            | i     | f <sub>B</sub> | Type                 | p    |                |      |                      |   |
| 2.2kW        |               |       |                |              |      | 2.2kW        |               |       |                |                      |      |                |      |                      |   |
| 36           | 555           | 39.88 | 0.98           | R 67<br>RF67 | 4    | 300          | 69            | 4.73  | 1.69           | RX 77<br>RXF77       | 4    |                |      |                      |   |
| 38           | 522           | 37.50 | 1.03           |              |      | 351          | 59            | 4.04  | 2.3            |                      |      |                |      |                      |   |
| 44           | 449           | 32.27 | 1.13           |              |      | 384          | 54            | 3.70  | 2.7            |                      |      |                |      |                      |   |
| 49           | 401           | 28.83 | 1.22           |              |      | 437          | 47            | 3.25  | 3.6            |                      |      |                |      |                      |   |
| 61           | 326           | 23.44 | 1.61           |              |      | 461          | 45            | 3.08  | 4.1            |                      |      |                |      |                      |   |
| 71           | 277           | 19.89 | 2.0            |              |      | 526          | 39            | 2.70  | 5.2            |                      |      |                |      |                      |   |
| 79           | 250           | 17.95 | 2.2            |              |      | 584          | 35            | 2.43  | 5.7            |                      |      |                |      |                      |   |
| 90           | 220           | 15.79 | 2.4            |              |      | 667          | 31            | 2.13  | 6.1            |                      |      |                |      |                      |   |
| 95           | 207           | 14.91 | 2.5            |              |      | 755          | 27            | 1.88  | 6.4            |                      |      |                |      |                      |   |
| 112          | 177           | 12.70 | 2.8            |              |      | 850          | 24            | 1.67  | 6.7            |                      |      |                |      |                      |   |
| 123          | 160           | 11.54 | 2.9            |              |      | 1000         | 21            | 1.42  | 7.1            |                      |      |                |      |                      |   |
| 142          | 139           | 10.00 | 3.2            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 163          | 121           | 8.70  | 3.3            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 182          | 108           | 7.79  | 3.4            |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 38           | 519           | 37.30 | 0.82           | R 57<br>RF57 | 4    | 377          | 55            | 3.77  | 1.50           | RX 67<br>RXF67       | 4    |                |      |                      |   |
| 40           | 488           | 35.07 | 0.87           |              |      | 444          | 46            | 3.20  | 2.0            |                      |      |                |      |                      |   |
| 47           | 420           | 30.18 | 1.01           |              |      | 491          | 42            | 2.89  | 2.4            |                      |      |                |      |                      |   |
| 53           | 375           | 26.97 | 1.13           |              |      | 559          | 37            | 2.54  | 3.0            |                      |      |                |      |                      |   |
| 65           | 305           | 21.93 | 1.39           |              |      | 592          | 35            | 2.40  | 3.3            |                      |      |                |      |                      |   |
| 76           | 259           | 18.60 | 1.64           |              |      | 696          | 30            | 2.04  | 4.3            |                      |      |                |      |                      |   |
| 85           | 234           | 16.79 | 1.81           |              |      | 763          | 27            | 1.86  | 4.4            |                      |      |                |      |                      |   |
| 96           | 205           | 14.77 | 1.99           |              |      | 882          | 23            | 1.61  | 4.6            |                      |      |                |      |                      |   |
| 102          | 194           | 13.95 | 2.1            |              |      | 1014         | 20            | 1.40  | 4.8            |                      |      |                |      |                      |   |
| 120          | 165           | 11.88 | 2.3            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 132          | 150           | 10.79 | 2.4            |              |      | 452          | 46            | 3.14  | 1.34           |                      |      | RX 57<br>RXF57 | 4    |                      |   |
| 152          | 130           | 9.35  | 2.7            |              |      | 538          | 38            | 2.64  | 1.69           |                      |      |                |      |                      |   |
| 157          | 126           | 9.06  | 2.8            |              |      | 599          | 34            | 2.37  | 1.89           |                      |      |                |      |                      |   |
| 178          | 111           | 7.97  | 3.0            |              |      | 696          | 30            | 2.04  | 2.2            |                      |      |                |      |                      |   |
|              |               |       |                | 740          | 28   | 1.92         | 2.3           |       |                |                      |      |                |      |                      |   |
|              |               |       |                | 861          | 24   | 1.65         | 2.7           |       |                |                      |      |                |      |                      |   |
|              |               |       |                | 959          | 21   | 1.48         | 3.0           |       |                |                      |      |                |      |                      |   |
|              |               |       |                | 1092         | 19   | 1.30         | 3.1           |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      | 3.0kW        |               |       |                |                      |      |                |      |                      |   |
| 74           | 268           | 19.27 | 1.03           | R 47<br>RF47 | 4    | 1.2          | 20417         | 1137  | 0.83           | R 167R97<br>RF167R97 | 4    |                |      |                      |   |
| 88           | 226           | 16.22 | 1.15           |              |      | 1.4          | 18172         | 1012  | 0.93           |                      |      |                |      |                      |   |
| 98           | 203           | 14.56 | 1.23           |              |      | 1.6          | 15658         | 872   | 1.08           |                      |      |                |      |                      |   |
| 113          | 174           | 12.54 | 1.35           |              |      | 1.8          | 13827         | 770   | 1.22           |                      |      |                |      |                      |   |
| 120          | 164           | 11.79 | 1.40           |              |      | 2.1          | 11923         | 664   | 1.42           |                      |      |                |      |                      |   |
| 140          | 141           | 10.15 | 1.53           |              |      | 2.8          | 9158          | 510   | 1.85           |                      |      |                |      |                      |   |
| 157          | 126           | 9.07  | 1.64           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 177          | 111           | 8.01  | 1.73           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 183          | 108           | 7.76  | 1.42           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 204          | 97            | 6.96  | 1.54           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 237          | 83            | 6.00  | 1.76           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 252          | 78            | 5.64  | 1.86           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 293          | 67            | 4.85  | 2.1            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 327          | 60            | 4.34  | 2.3            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 371          | 53            | 3.83  | 2.5            |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 91           | 217           | 15.60 | 0.87           | R 37<br>RF37 | 4    | 1.6          | 15963         | 889   | 0.8            | R 147R77<br>RF147R77 | 4    |                |      |                      |   |
| 107          | 184           | 13.25 | 0.97           |              |      | 1.8          | 14078         | 784   | 0.87           |                      |      |                |      |                      |   |
| 120          | 165           | 11.83 | 1.05           |              |      | 2.0          | 12480         | 695   | 0.98           |                      |      |                |      |                      |   |
| 140          | 141           | 10.11 | 1.14           |              |      | 2.3          | 10900         | 607   | 1.12           |                      |      |                |      |                      |   |
| 150          | 132           | 9.47  | 1.19           |              |      | 2.6          | 9822          | 547   | 1.24           |                      |      |                |      |                      |   |
| 178          | 111           | 7.97  | 1.32           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 213          | 93            | 6.67  | 1.46           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 250          | 79            | 5.67  | 1.69           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 281          | 70            | 5.06  | 1.80           |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 329          | 60            | 4.32  | 2.0            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 351          | 56            | 4.05  | 2.0            |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 416          | 47            | 3.41  | 2.2            |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
| 140          | 141           | 10.13 | 0.81           |              |      | R 27<br>RF27 | 4             | 2.7   | 9388           |                      |      | 517            | 0.80 | R 137R77<br>RF137R77 | 4 |
| 215          | 92            | 6.59  | 1.09           |              |      |              |               | 2.9   | 8898           |                      |      | 490            | 0.85 |                      |   |
| 254          | 78            | 5.60  | 1.19           |              |      |              |               | 3.1   | 8226           |                      |      | 453            | 0.91 |                      |   |
| 284          | 70            | 5.00  | 1.28           |              |      |              |               | 3.3   | 7772           |                      |      | 428            | 0.97 |                      |   |
| 333          | 59            | 4.27  | 1.38           |              |      |              |               | 3.8   | 6791           |                      |      | 374            | 1.11 |                      |   |
| 355          | 56            | 4.00  | 1.44           |              |      |              |               | 4.5   | 5756           |                      |      | 317            | 1.31 |                      |   |
| 421          | 47            | 3.37  | 1.58           | 5.0          | 5193 |              |               | 286   | 1.45           |                      |      |                |      |                      |   |
|              |               |       |                |              |      |              |               |       |                |                      |      |                |      |                      |   |
|              |               |       |                |              |      | 5.7          | 4540          | 250   | 1.66           | R 107R77<br>RF107R77 | 4    |                |      |                      |   |
|              |               |       |                |              |      | 6.5          | 3977          | 219   | 1.89           |                      |      |                |      |                      |   |
|              |               |       |                |              |      | 5.6          | 4798          | 253   | 0.84           |                      |      |                |      |                      |   |
|              |               |       |                |              |      | 5.8          | 4647          | 245   | 0.87           | R 107R77<br>RF107R77 | 4    |                |      |                      |   |
|              |               |       |                |              |      | 6.8          | 3945          | 208   | 1.02           |                      |      |                |      |                      |   |
|              |               |       |                |              |      | 7.8          | 3433          | 181   | 1.18           |                      |      |                |      |                      |   |



| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|----------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>3.0kW</b>          |                     |            |                         |                |           | <b>3.0kW</b>          |                     |            |                         |              |           |
| 3.2                   | 8472                | 223.34     | 0.89                    | R 137<br>RF137 | 8         | 32                    | 849                 | 44.78      | 0.91                    | R 77<br>RF77 | 4         |
| 3.8                   | 7137                | 188.16     | 1.05                    |                |           | 34                    | 802                 | 42.29      | 0.96                    |              |           |
| 4.1                   | 6615                | 174.40     | 1.14                    |                |           | 39                    | 683                 | 36.01      | 1.13                    |              |           |
| 4.5                   | 5929                | 156.31     | 1.27                    |                |           | 43                    | 621                 | 32.72      | 1.24                    |              |           |
| 5.0                   | 5353                | 141.12     | 1.40                    |                |           | 50                    | 538                 | 28.35      | 1.43                    |              |           |
| 5.5                   | 4862                | 128.18     | 1.55                    |                |           | 58                    | 468                 | 24.67      | 1.57                    |              |           |
| 6.2                   | 4314                | 113.72     | 1.74                    |                |           | 61                    | 443                 | 23.37      | 1.74                    |              |           |
| 6.9                   | 3914                | 103.20     | 1.92                    |                |           | 66                    | 406                 | 21.43      | 1.90                    |              |           |
| 8.0                   | 3364                | 88.70      | 2.20                    | R 137<br>RF137 | 6         | 76                    | 357                 | 18.80      | 2.1                     | R 67<br>RF67 | 4         |
| 4.3                   | 6245                | 222.60     | 1.20                    |                |           | 80                    | 338                 | 17.82      | 2.2                     |              |           |
| 5.1                   | 5287                | 188.45     | 1.42                    |                |           | 91                    | 296                 | 15.60      | 2.4                     |              |           |
| 5.5                   | 4892                | 174.40     | 1.54                    |                |           | 101                   | 266                 | 14.05      | 2.5                     |              |           |
| 6.1                   | 4385                | 156.31     | 1.71                    |                |           | 115                   | 234                 | 12.33      | 2.8                     |              |           |
| 6.8                   | 3959                | 141.12     | 1.90                    |                |           | 131                   | 206                 | 10.88      | 3.0                     |              |           |
| 7.5                   | 3596                | 128.18     | 2.10                    |                |           | 147                   | 183                 | 9.64       | 3.2                     |              |           |
| 8.4                   | 3190                | 113.72     | 2.40                    |                |           | 169                   | 160                 | 8.42       | 3.7                     |              |           |
| 9.3                   | 2895                | 103.20     | 2.60                    |                |           | 187                   | 144                 | 7.59       | 4.0                     |              |           |
| 6.2                   | 4377                | 156.04     | 0.92                    | R 107<br>RF107 | 4         | 213                   | 126                 | 6.66       | 4.3                     |              |           |
| 6.9                   | 3913                | 139.47     | 1.03                    |                |           | 61                    | 445                 | 23.44      | 1.18                    | R 57<br>RF57 | 4         |
| 7.6                   | 3522                | 125.55     | 1.15                    |                |           | 71                    | 377                 | 19.89      | 1.50                    |              |           |
| 6.3                   | 4288                | 226.11     | 0.94                    |                |           | 79                    | 340                 | 17.95      | 1.63                    |              |           |
| 7.1                   | 3810                | 200.87     | 1.06                    |                |           | 90                    | 299                 | 15.79      | 1.76                    |              |           |
| 8.5                   | 3172                | 167.29     | 1.27                    |                |           | 95                    | 283                 | 14.91      | 1.8                     |              |           |
| 9.1                   | 2959                | 156.04     | 1.37                    |                |           | 112                   | 241                 | 12.70      | 2.0                     |              |           |
| 10                    | 2645                | 139.47     | 1.53                    |                |           | 123                   | 219                 | 11.54      | 2.1                     |              |           |
| 11                    | 2381                | 125.55     | 1.70                    |                |           | 142                   | 190                 | 10.00      | 2.3                     |              |           |
| 12                    | 2156                | 113.70     | 1.87                    | R 97<br>RF97   | 4         | 53                    | 511                 | 26.97      | 0.8                     | R 47<br>RF47 | 4         |
| 14                    | 1912                | 100.82     | 2.1                     |                |           | 65                    | 416                 | 21.93      | 1.02                    |              |           |
| 16                    | 1729                | 91.16      | 2.3                     |                |           | 76                    | 353                 | 18.60      | 1.20                    |              |           |
| 18                    | 1465                | 77.26      | 2.8                     |                |           | 85                    | 318                 | 16.79      | 1.33                    |              |           |
| 20                    | 1366                | 72.00      | 3.0                     |                |           | 96                    | 280                 | 14.77      | 1.46                    |              |           |
| 9.4                   | 2860                | 150.78     | 0.99                    |                |           | 102                   | 265                 | 13.95      | 1.53                    |              |           |
| 11                    | 2404                | 126.75     | 1.17                    |                |           | 120                   | 225                 | 11.88      | 1.69                    |              |           |
| 12                    | 2209                | 116.48     | 1.28                    |                |           | 132                   | 205                 | 10.79      | 1.79                    |              |           |
| 14                    | 1962                | 103.44     | 1.44                    | R 87<br>RF87   | 4         | 152                   | 177                 | 9.35       | 2.0                     | R 37<br>RF37 | 4         |
| 15                    | 1754                | 92.48      | 1.61                    |                |           | 157                   | 172                 | 9.06       | 2.1                     |              |           |
| 17                    | 1577                | 83.15      | 1.79                    |                |           | 178                   | 151                 | 7.97       | 2.2                     |              |           |
| 20                    | 1369                | 72.17      | 2.1                     |                |           | 189                   | 143                 | 7.53       | 2.3                     |              |           |
| 22                    | 1235                | 65.12      | 2.3                     |                |           | 222                   | 122                 | 6.41       | 2.6                     |              |           |
| 24                    | 1135                | 59.84      | 2.5                     |                |           | 244                   | 110                 | 5.82       | 2.7                     |              |           |
| 27                    | 1008                | 53.14      | 2.8                     |                |           | 281                   | 96                  | 5.05       | 3.0                     |              |           |
| 30                    | 901                 | 47.51      | 3.1                     |                |           | 323                   | 83                  | 4.39       | 3.2                     |              |           |
| 33                    | 810                 | 42.72      | 3.5                     | R 77<br>RF77   | 4         | 88                    | 308                 | 16.22      | 0.84                    | R 37<br>RF37 | 4         |
| 38                    | 703                 | 37.08      | 4.0                     |                |           | 98                    | 276                 | 14.56      | 0.90                    |              |           |
| 43                    | 630                 | 33.20      | 4.3                     |                |           | 113                   | 238                 | 12.54      | 0.99                    |              |           |
| 15                    | 1771                | 93.38      | 0.82                    |                |           | 120                   | 224                 | 11.79      | 1.03                    |              |           |
| 17                    | 1554                | 81.92      | 0.94                    |                |           | 140                   | 192                 | 10.15      | 1.12                    |              |           |
| 20                    | 1373                | 72.37      | 1.06                    |                |           | 157                   | 172                 | 9.07       | 1.20                    |              |           |
| 22                    | 1204                | 63.50      | 1.21                    |                |           | 177                   | 152                 | 8.01       | 1.27                    |              |           |
| 24                    | 1141                | 60.18      | 1.28                    |                |           | 183                   | 147                 | 7.76       | 1.04                    |              |           |
| 27                    | 999                 | 52.67      | 1.46                    | R 77<br>RF77   | 4         | 204                   | 132                 | 6.96       | 1.13                    |              |           |
| 30                    | 900                 | 47.45      | 1.62                    |                |           | 237                   | 114                 | 6.00       | 1.29                    |              |           |
| 34                    | 790                 | 41.63      | 1.85                    |                |           | 252                   | 107                 | 5.64       | 1.36                    |              |           |
| 39                    | 697                 | 36.73      | 2.1                     |                |           | 293                   | 92                  | 4.85       | 1.53                    |              |           |
| 41                    | 651                 | 34.34      | 2.2                     |                |           | 327                   | 82                  | 4.34       | 1.67                    |              |           |
| 44                    | 618                 | 32.57      | 2.4                     |                |           | 371                   | 73                  | 3.83       | 1.86                    |              |           |
| 45                    | 592                 | 31.22      | 2.5                     |                |           | 140                   | 192                 | 10.11      | 0.83                    | R 37<br>RF37 | 4         |
| 51                    | 528                 | 27.84      | 2.8                     |                |           | 150                   | 180                 | 9.47       | 0.87                    |              |           |
| 53                    | 527                 | 27.81      | 2.8                     |                |           | 178                   | 151                 | 7.97       | 0.97                    |              |           |
| 61                    | 444                 | 23.40      | 3.3                     |                |           | 213                   | 126                 | 6.67       | 1.07                    |              |           |
| 66                    | 408                 | 21.51      | 3.5                     |                |           | 250                   | 108                 | 5.67       | 1.24                    |              |           |
| 74                    | 362                 | 19.10      | 3.6                     |                |           | 281                   | 96                  | 5.06       | 1.32                    |              |           |
| 83                    | 324                 | 17.08      | 4.0                     |                |           | 329                   | 82                  | 4.32       | 1.45                    |              |           |
| 93                    | 291                 | 15.35      | 4.3                     |                |           | 351                   | 77                  | 4.05       | 1.49                    |              |           |
|                       |                     |            |                         |                |           | 416                   | 65                  | 3.41       | 1.63                    |              |           |

R



R

| Output speed | Output torque | Ratio | Service factor | Type             | Pole | Output speed   | Output torque | Ratio  | Service factor | Type                 | Pole |                |   |
|--------------|---------------|-------|----------------|------------------|------|----------------|---------------|--------|----------------|----------------------|------|----------------|---|
| r/min        | Nm            | i     | f <sub>B</sub> | Type             | p    | r/min          | Nm            | i      | f <sub>B</sub> | Type                 | p    |                |   |
| 3.0kW        |               |       |                |                  |      | 4.0kW          |               |        |                |                      |      |                |   |
| 254          | 106           | 5.60  | 0.88           | R 27<br>RF27     | 4    | 3.8            | 8877          | 376    | 0.85           | R 137R77<br>RF137R77 | 4    |                |   |
| 284          | 95            | 5.00  | 0.94           |                  |      | 3.9            | 8830          | 374    | 0.85           |                      |      |                |   |
| 333          | 81            | 4.27  | 1.01           |                  |      | 4.2            | 8004          | 339    | 0.94           |                      |      |                |   |
| 355          | 76            | 4.00  | 1.05           |                  |      | 4.5            | 7484          | 317    | 1.00           |                      |      |                |   |
| 421          | 64            | 3.37  | 1.2            |                  |      | 4.8            | 7012          | 297    | 1.07           |                      |      |                |   |
|              |               |       |                |                  |      | 5.0            | 6752          | 286    | 1.11           |                      |      |                |   |
| 109          | 258           | 6.47  | 4.31           | RX 127<br>RXF127 | 8    | 5.8            | 5902          | 250    | 1.27           |                      |      |                |   |
|              |               |       |                |                  |      | 6.6            | 5171          | 219    | 1.45           |                      |      |                |   |
| 220          | 127           | 6.44  | 1.42           | RX 87<br>RXF87   | 4    | 7.5            | 4509          | 191    | 0.90           | R 107R77<br>RF107R77 | 4    |                |   |
| 256          | 110           | 5.55  | 1.92           |                  |      | 8.0            | 4273          | 181    | 0.95           |                      |      |                |   |
| 281          | 100           | 5.05  | 2.3            |                  |      | 8.6            | 3943          | 167    | 1.03           |                      |      |                |   |
| 316          | 89            | 4.50  | 3.1            |                  |      |                |               |        |                |                      |      |                |   |
| 376          | 75            | 3.78  | 3.8            |                  |      |                |               |        |                |                      |      |                |   |
| 300          | 94            | 4.73  | 1.24           | RX 77<br>RXF77   | 4    | 4.4            | 8152          | 163.46 | 1.50           | R 147<br>RF147       | 8    |                |   |
| 351          | 80            | 4.04  | 1.68           |                  |      | 4.9            | 7324          | 146.85 | 1.67           |                      |      |                |   |
| 384          | 73            | 3.70  | 1.97           |                  |      | 6.0            | 5946          | 119.24 | 2.0            |                      |      |                |   |
| 437          | 64            | 3.25  | 2.7            |                  |      | 6.5            | 5487          | 110.03 | 2.2            |                      |      |                |   |
| 461          | 61            | 3.08  | 3.0            |                  |      |                |               |        |                |                      |      |                |   |
| 377          | 75            | 3.77  | 1.10           | RX 67<br>RXF67   | 4    | 4.1            | 8698          | 174.40 | 0.86           | R 137<br>RF137       | 8    |                |   |
| 444          | 63            | 3.20  | 1.49           |                  |      | 4.6            | 7796          | 156.31 | 0.96           |                      |      |                |   |
| 491          | 57            | 2.89  | 1.74           |                  |      | 5.1            | 7038          | 141.12 | 1.07           |                      |      |                |   |
| 559          | 50            | 2.54  | 2.2            |                  |      | 5.6            | 6393          | 128.18 | 1.18           |                      |      |                |   |
| 592          | 47            | 2.40  | 2.4            |                  |      | 6.3            | 5671          | 113.72 | 1.33           |                      |      |                |   |
| 696          | 40            | 2.04  | 3.1            |                  |      | 7.0            | 5147          | 103.20 | 1.46           |                      |      |                |   |
| 763          | 37            | 1.86  | 3.2            |                  |      |                |               |        |                |                      |      |                |   |
| 882          | 32            | 1.61  | 3.4            |                  |      |                |               |        |                |                      |      |                |   |
| 1014         | 28            | 1.40  | 3.5            |                  |      |                |               |        |                |                      |      |                |   |
| 452          | 62            | 3.14  | 0.98           |                  |      | RX 57<br>RXF57 | 4             | 4.3    | 8354           | 223.34               | 0.90 | R 137<br>RF137 | 6 |
| 538          | 52            | 2.64  | 1.24           | 5.1              | 7038 |                |               | 188.16 | 1.07           |                      |      |                |   |
| 599          | 47            | 2.37  | 1.38           | 5.5              | 6523 |                |               | 174.40 | 1.15           |                      |      |                |   |
| 696          | 40            | 2.04  | 1.61           | 6.1              | 5847 |                |               | 156.31 | 1.29           |                      |      |                |   |
| 740          | 38            | 1.92  | 1.71           | 6.8              | 5278 |                |               | 141.12 | 1.42           |                      |      |                |   |
| 861          | 33            | 1.65  | 1.99           | 7.5              | 4794 |                |               | 128.18 | 1.57           |                      |      |                |   |
| 959          | 29            | 1.48  | 2.2            | 8.4              | 4254 |                |               | 113.72 | 1.77           |                      |      |                |   |
| 1092         | 26            | 1.30  | 2.3            | 9.3              | 3860 |                |               | 103.2  | 1.95           |                      |      |                |   |
|              |               |       |                | 11               | 3318 |                |               | 88.70  | 2.3            |                      |      |                |   |
|              |               |       |                |                  |      |                |               |        |                |                      |      |                |   |
|              |               |       |                |                  |      |                |               |        |                |                      |      |                |   |
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| Output speed | Output torque | Ratio | Service factor | Type         | Pole | Output speed | Output torque | Ratio | Service factor | Type                 | Pole   |  |  |
|--------------|---------------|-------|----------------|--------------|------|--------------|---------------|-------|----------------|----------------------|--------|--|--|
| r/min        | Nm            | i     | f <sub>B</sub> | Type         | p    | r/min        | Nm            | i     | f <sub>B</sub> | Type                 | p      |  |  |
| 4.0kW        |               |       |                |              |      | 4.0kW        |               |       |                |                      |        |  |  |
| 23           | 1583          | 63.5  | 0.92           | R 87<br>RF87 | 4    | 142          | 253           | 10.15 | 0.85           | R 47<br>RF47         | 4      |  |  |
| 24           | 1501          | 60.18 | 0.97           |              |      | 159          | 226           | 9.07  | 0.86           |                      |        |  |  |
| 27           | 1313          | 52.67 | 1.11           |              |      | 180          | 200           | 8.01  | 0.91           |                      |        |  |  |
| 30           | 1183          | 47.45 | 1.23           |              |      | 207          | 174           | 6.96  | 0.96           |                      |        |  |  |
| 35           | 1038          | 41.63 | 1.40           |              |      | 240          | 150           | 6.00  | 0.98           |                      |        |  |  |
| 39           | 916           | 36.73 | 1.59           |              |      | 255          | 141           | 5.64  | 1.04           |                      |        |  |  |
| 42           | 856           | 34.34 | 1.70           |              |      | 297          | 121           | 4.85  | 1.17           |                      |        |  |  |
| 44           | 812           | 32.57 | 1.79           |              |      | 332          | 108           | 4.34  | 1.27           |                      |        |  |  |
| 46           | 779           | 31.22 | 1.87           |              |      | 376          | 96            | 3.83  | 1.42           |                      |        |  |  |
| 52           | 694           | 27.84 | 2.1            |              |      |              |               |       |                |                      |        |  |  |
| 53           | 693           | 27.81 | 2.2            |              |      | 109          | 344           | 6.47  | 3.23           | RX 127               | 8      |  |  |
| 62           | 584           | 23.40 | 2.5            |              |      | 121          | 310           | 5.88  | 3.59           | RXF127               | 8      |  |  |
| 67           | 536           | 21.51 | 2.7            |              |      |              |               |       |                |                      |        |  |  |
| 75           | 476           | 19.10 | 3.1            |              |      | 147          | 254           | 6.47  | 4.37           | RX 127<br>RXF127     | 6<br>6 |  |  |
| 84           | 426           | 17.08 | 3.1            |              |      |              |               |       |                |                      |        |  |  |
| 94           | 383           | 15.35 | 3.3            |              |      | 259          | 144           | 5.55  | 1.46           | RX 87<br>RXF87       | 4      |  |  |
| 108          | 332           | 13.33 | 3.6            |              |      | 285          | 131           | 5.05  | 1.78           |                      |        |  |  |
| 121          | 297           | 11.93 | 3.9            |              |      | 320          | 117           | 4.50  | 2.3            |                      |        |  |  |
|              |               |       |                |              |      | 381          | 98            | 3.78  | 2.9            |                      |        |  |  |
| 40           | 898           | 36.01 | 0.86           | R 77<br>RF77 | 4    | 356          | 105           | 4.04  | 1.28           | RX 77<br>RXF77       | 4      |  |  |
| 44           | 816           | 32.72 | 0.94           |              |      | 389          | 96            | 3.70  | 1.50           |                      |        |  |  |
| 51           | 707           | 28.35 | 1.09           |              |      | 443          | 84            | 3.25  | 2.0            |                      |        |  |  |
| 58           | 615           | 24.67 | 1.19           |              |      | 468          | 80            | 3.08  | 2.3            |                      |        |  |  |
| 62           | 583           | 23.37 | 1.32           |              |      | 533          | 70            | 2.70  | 2.9            |                      |        |  |  |
| 67           | 534           | 21.43 | 1.44           |              |      | 593          | 63            | 2.43  | 3.2            |                      |        |  |  |
| 77           | 469           | 18.80 | 1.56           |              |      | 676          | 55            | 2.13  | 3.4            |                      |        |  |  |
| 81           | 444           | 17.82 | 1.65           |              |      | 766          | 49            | 1.88  | 3.6            |                      |        |  |  |
| 92           | 389           | 15.60 | 1.79           |              |      | 862          | 43            | 1.67  | 3.7            |                      |        |  |  |
| 102          | 350           | 14.05 | 1.93           |              |      | 1014         | 37            | 1.42  | 3.9            |                      |        |  |  |
| 117          | 307           | 12.33 | 2.1            |              |      |              |               |       |                |                      |        |  |  |
| 132          | 271           | 10.88 | 2.3            |              |      | 450          | 83            | 3.20  | 1.13           | RX 67<br>RXF67       | 4      |  |  |
| 149          | 240           | 9.64  | 2.5            |              |      | 498          | 75            | 2.89  | 1.33           |                      |        |  |  |
| 171          | 210           | 8.42  | 2.8            |              |      | 567          | 66            | 2.54  | 1.68           |                      |        |  |  |
| 190          | 189           | 7.59  | 3.0            |              |      | 600          | 62            | 2.40  | 1.85           |                      |        |  |  |
| 216          | 166           | 6.66  | 3.3            |              |      | 706          | 53            | 2.04  | 2.4            |                      |        |  |  |
| 245          | 147           | 5.88  | 3.5            |              |      | 774          | 48            | 1.86  | 2.4            |                      |        |  |  |
| 276          | 130           | 5.21  | 3.7            |              |      | 894          | 42            | 1.61  | 2.6            |                      |        |  |  |
|              |               |       |                |              |      | 1029         | 36            | 1.40  | 2.7            |                      |        |  |  |
| 72           | 496           | 19.89 | 1.14           | R 67<br>RF67 | 4    | 545          | 69            | 2.64  | 0.95           | RX 57<br>RXF57       | 4      |  |  |
| 80           | 448           | 17.95 | 1.24           |              |      | 608          | 62            | 2.37  | 1.05           |                      |        |  |  |
| 91           | 394           | 15.79 | 1.34           |              |      | 706          | 53            | 2.04  | 1.22           |                      |        |  |  |
| 97           | 372           | 14.91 | 1.39           |              |      | 750          | 50            | 1.92  | 1.30           |                      |        |  |  |
| 113          | 317           | 12.70 | 1.54           |              |      | 873          | 43            | 1.65  | 1.51           |                      |        |  |  |
| 125          | 288           | 11.54 | 1.63           |              |      | 973          | 38            | 1.48  | 1.66           |                      |        |  |  |
| 144          | 249           | 10.00 | 1.77           |              |      | 1108         | 34            | 1.30  | 1.75           |                      |        |  |  |
| 166          | 217           | 8.70  | 1.91           |              |      |              |               |       |                |                      |        |  |  |
| 185          | 194           | 7.79  | 1.84           |              |      |              |               |       |                |                      |        |  |  |
| 196          | 184           | 7.36  | 1.90           |              |      |              |               |       |                |                      |        |  |  |
| 230          | 156           | 6.27  | 2.0            |              |      |              |               |       |                |                      |        |  |  |
| 253          | 142           | 5.70  | 2.1            |              |      |              |               |       |                |                      |        |  |  |
| 292          | 123           | 4.93  | 2.2            |              |      |              |               |       |                |                      |        |  |  |
| 336          | 107           | 4.29  | 2.4            |              |      |              |               |       |                |                      |        |  |  |
|              |               |       |                |              |      | 5.5kW        |               |       |                |                      |        |  |  |
| 77           | 464           | 18.60 | 0.91           | R 57<br>RF57 | 4    | 2.2          | 21556         | 664   | 0.80           | R 167R97<br>RF167R97 | 4      |  |  |
| 86           | 419           | 16.79 | 1.01           |              |      | 2.5          | 18764         | 578   | 0.90           |                      |        |  |  |
| 97           | 368           | 14.77 | 1.11           |              |      | 2.8          | 16556         | 510   | 1.02           |                      |        |  |  |
| 103          | 348           | 13.95 | 1.16           |              |      | 3.3          | 14219         | 438   | 1.19           |                      |        |  |  |
| 121          | 296           | 11.88 | 1.29           |              |      | 3.8          | 12336         | 380   | 1.37           |                      |        |  |  |
| 133          | 269           | 10.79 | 1.36           |              |      | 4.3          | 10973         | 338   | 1.54           |                      |        |  |  |
| 154          | 233           | 9.35  | 1.49           |              |      | 4.7          | 9966          | 307   | 1.70           |                      |        |  |  |
| 159          | 226           | 9.06  | 1.56           |              |      | 5.1          | 9155          | 282   | 1.85           |                      |        |  |  |
| 181          | 199           | 7.97  | 1.68           |              |      |              |               |       |                |                      |        |  |  |
| 191          | 188           | 7.53  | 1.75           |              |      | 3.1          | 14998         | 462   | 0.81           | R 147R87<br>RF147R87 | 4      |  |  |
| 225          | 160           | 6.41  | 1.97           |              |      | 3.3          | 14024         | 432   | 0.87           |                      |        |  |  |
| 247          | 145           | 5.82  | 2.1            |              |      | 3.9          | 12109         | 373   | 1.01           |                      |        |  |  |
| 285          | 126           | 5.05  | 2.3            |              |      | 4.4          | 10713         | 330   | 1.14           |                      |        |  |  |
| 328          | 109           | 4.39  | 2.4            |              |      | 5.1          | 9187          | 283   | 1.33           |                      |        |  |  |
|              |               |       |                |              |      | 5.8          | 8116          | 250   | 1.51           |                      |        |  |  |
|              |               |       |                |              |      | 6.7          | 7012          | 216   | 1.74           |                      |        |  |  |
|              |               |       |                |              |      | 7.5          | 6201          | 191   | 1.97           |                      |        |  |  |

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| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type   | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|----------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>5.5kW</b>          |                     |            |                         |                |           | <b>5.5kW</b>          |                     |            |                         |              |           |
| 3.7                   | 12752               | 196.41     | 1.32                    | R 167<br>RF167 | 8         | 45                    | 1105                | 32.22      | 2.2                     | R 97<br>RF97 | 4         |
| 4.5                   | 10440               | 160.80     | 1.63                    |                |           | 54                    | 920                 | 26.84      | 2.6                     |              |           |
| 5.5                   | 8469                | 130.44     | 1.99                    |                |           | 58                    | 858                 | 25.03      | 3.1                     |              |           |
| 6.0                   | 7855                | 120.99     | 2.17                    |                |           | 64                    | 767                 | 22.37      | 3.3                     |              |           |
| 6.9                   | 6779                | 104.41     | 2.50                    |                |           | 71                    | 691                 | 20.14      | 3.6                     |              |           |
|                       |                     |            |                         |                |           | 79                    | 625                 | 18.24      | 3.8                     |              |           |
|                       |                     |            |                         |                |           | 89                    | 554                 | 16.17      | 4.1                     |              |           |
| 4.4                   | 10613               | 163.46     | 1.15                    | R 147<br>RF147 | 8         | 30                    | 1627                | 47.45      | 0.90                    | R 87<br>RF87 | 4         |
| 4.9                   | 9534                | 146.85     | 1.28                    |                |           | 35                    | 1427                | 41.63      | 1.02                    |              |           |
| 6.0                   | 7742                | 119.24     | 1.57                    |                |           | 39                    | 1259                | 36.73      | 1.16                    |              |           |
| 6.6                   | 7144                | 110.03     | 1.72                    |                |           | 44                    | 1117                | 32.57      | 1.30                    |              |           |
| 5.9                   | 7960                | 163.46     | 1.54                    | R 147<br>RF147 | 6         | 52                    | 955                 | 27.84      | 1.53                    |              |           |
| 6.5                   | 7151                | 146.85     | 1.71                    |                |           | 53                    | 954                 | 27.81      | 1.53                    |              |           |
| 8.0                   | 6133                | 119.24     | 2.0                     |                |           | 62                    | 802                 | 23.40      | 1.82                    |              |           |
| 8.8                   | 5659                | 110.03     | 2.2                     |                |           | 67                    | 738                 | 21.51      | 2.0                     |              |           |
| 10                    | 4865                | 94.60      | 2.5                     |                |           | 75                    | 655                 | 19.10      | 2.1                     |              |           |
| 12                    | 4293                | 83.47      | 2.8                     |                |           | 84                    | 586                 | 17.08      | 2.2                     |              |           |
| 5.6                   | 8790                | 128.18     | 0.86                    | R 137<br>RF137 | 8         | 94                    | 526                 | 15.35      | 2.4                     |              |           |
| 6.3                   | 7798                | 113.72     | 0.96                    |                |           | 108                   | 457                 | 13.33      | 2.6                     |              |           |
| 7.0                   | 7077                | 103.2      | 1.06                    |                |           | 121                   | 409                 | 11.93      | 2.8                     |              |           |
| 8.1                   | 6083                | 88.70      | 1.24                    |                |           | 145                   | 339                 | 9.90       | 3.3                     |              |           |
| 5.5                   | 8970                | 174.40     | 0.84                    | R 137<br>RF137 | 6         | 156                   | 317                 | 9.25       | 3.6                     |              |           |
| 6.1                   | 8039                | 156.31     | 0.94                    |                |           | 173                   | 285                 | 8.32       | 3.8                     |              |           |
| 6.8                   | 7258                | 141.12     | 1.04                    |                |           | 199                   | 248                 | 7.22       | 4.1                     |              |           |
| 7.5                   | 6592                | 128.18     | 1.14                    |                |           | 77                    | 645                 | 18.80      | 1.14                    | R 77<br>RF77 | 4         |
| 8.4                   | 5849                | 113.72     | 1.29                    |                |           | 81                    | 611                 | 17.82      | 1.20                    |              |           |
| 9.3                   | 5308                | 103.20     | 1.42                    |                |           | 92                    | 535                 | 15.60      | 1.30                    |              |           |
| 6.4                   | 7658                | 223.34     | 0.98                    | R 137<br>RF137 | 4         | 102                   | 482                 | 14.05      | 1.40                    |              |           |
| 7.7                   | 6451                | 188.16     | 1.17                    |                |           | 117                   | 423                 | 12.33      | 1.53                    |              |           |
| 8.3                   | 5980                | 174.40     | 1.26                    |                |           | 132                   | 373                 | 10.88      | 1.66                    |              |           |
| 9.2                   | 5359                | 156.31     | 1.40                    |                |           | 149                   | 331                 | 9.64       | 1.79                    |              |           |
| 10                    | 4839                | 141.12     | 1.55                    |                |           | 171                   | 289                 | 8.42       | 2.1                     |              |           |
| 11                    | 4395                | 128.18     | 1.71                    |                |           | 190                   | 260                 | 7.59       | 2.2                     |              |           |
| 13                    | 3899                | 113.72     | 1.93                    |                |           | 216                   | 228                 | 6.66       | 2.4                     |              |           |
| 14                    | 3538                | 103.20     | 2.1                     |                |           | 245                   | 202                 | 5.88       | 2.52                    |              |           |
| 16                    | 3041                | 88.70      | 2.5                     |                |           | 276                   | 179                 | 5.21       | 2.68                    |              |           |
| 18                    | 2774                | 80.91      | 2.7                     |                |           | 91                    | 541                 | 15.79      | 0.97                    | R 67<br>RF67 | 4         |
| 20                    | 2520                | 73.49      | 3.0                     |                |           | 97                    | 511                 | 14.91      | 1.01                    |              |           |
| 22                    | 2236                | 65.20      | 3.4                     |                |           | 113                   | 435                 | 12.70      | 1.12                    |              |           |
| 24                    | 2029                | 59.17      | 3.7                     |                |           | 125                   | 396                 | 11.54      | 1.19                    |              |           |
| 28                    | 1744                | 50.86      | 4.3                     |                |           | 144                   | 343                 | 10.00      | 1.29                    |              |           |
| 11                    | 4305                | 125.55     | 0.94                    | R 107<br>RF107 | 4         | 166                   | 298                 | 8.70       | 1.34                    |              |           |
| 13                    | 3898                | 113.70     | 1.04                    |                |           | 185                   | 267                 | 7.79       | 1.38                    |              |           |
| 14                    | 3457                | 100.82     | 1.17                    |                |           | 196                   | 252                 | 7.36       | 1.39                    |              |           |
| 16                    | 3126                | 91.16      | 1.29                    |                |           | 230                   | 215                 | 6.27       | 1.44                    |              |           |
| 19                    | 2649                | 77.26      | 1.54                    |                |           | 253                   | 195                 | 5.70       | 1.49                    |              |           |
| 20                    | 2469                | 72.00      | 1.64                    |                |           | 292                   | 169                 | 4.93       | 1.61                    |              |           |
| 22                    | 2222                | 64.84      | 1.82                    |                |           | 336                   | 147                 | 4.29       | 1.73                    |              |           |
| 25                    | 2012                | 58.69      | 2.01                    |                |           | 97                    | 506                 | 14.77      | 0.81                    | R 57<br>RF57 | 4         |
| 28                    | 1785                | 52.05      | 2.3                     |                |           | 103                   | 478                 | 13.95      | 0.85                    |              |           |
| 31                    | 1614                | 47.06      | 2.5                     |                |           | 121                   | 407                 | 11.88      | 0.93                    |              |           |
| 36                    | 1367                | 39.88      | 3.0                     |                |           | 133                   | 370                 | 10.79      | 0.99                    |              |           |
| 17                    | 2851                | 83.15      | 0.99                    | R 97<br>RF97   | 4         | 154                   | 321                 | 9.35       | 1.08                    |              |           |
| 20                    | 2475                | 72.17      | 1.14                    |                |           | 181                   | 273                 | 7.97       | 1.22                    |              |           |
| 22                    | 2233                | 65.12      | 1.26                    |                |           | 191                   | 258                 | 7.53       | 1.27                    |              |           |
| 24                    | 2052                | 59.84      | 1.37                    |                |           | 225                   | 220                 | 6.41       | 1.43                    |              |           |
| 27                    | 1822                | 53.14      | 1.55                    |                |           | 247                   | 200                 | 5.82       | 1.51                    |              |           |
| 30                    | 1629                | 47.51      | 1.73                    |                |           | 285                   | 173                 | 5.05       | 1.66                    |              |           |
| 34                    | 1465                | 42.72      | 1.93                    |                |           | 328                   | 151                 | 4.39       | 1.75                    |              |           |
| 39                    | 1271                | 37.08      | 2.2                     |                |           | 297                   | 166                 | 4.85       | 0.85                    | R 47<br>RF47 | 4         |
| 43                    | 1138                | 33.20      | 2.4                     |                |           | 332                   | 149                 | 4.34       | 0.92                    |              |           |
| 52                    | 944                 | 27.54      | 2.7                     |                |           | 376                   | 131                 | 3.83       | 1.03                    |              |           |



| Output speed | Output torque | Ratio | Service factor | Type                 | Pole   | Output speed | Output torque | Ratio          | Service factor | Type                 | Pole   |
|--------------|---------------|-------|----------------|----------------------|--------|--------------|---------------|----------------|----------------|----------------------|--------|
| r/min        | Nm            | i     | f <sub>B</sub> | Type                 | p      | r/min        | Nm            | i              | f <sub>B</sub> | Type                 | p      |
| 5.5kW        |               |       |                |                      |        | 7.5kW        |               |                |                |                      |        |
| 116          | 443           | 6.22  | 3.79           | RX 157<br>RXF157     | 8<br>8 | 4.4          | 14408         | 330            | 0.85           | R 147R87<br>RF147R87 | 4<br>4 |
| 123          | 420           | 5.88  | 2.64           | RX 127<br>RXF127     | 8<br>8 | 5.2          | 12356         | 283            | 0.99           |                      |        |
| 147          | 350           | 6.47  | 3.18           | RX 127<br>RXF127     | 6<br>6 | 5.8          | 10915         | 250            | 1.12           |                      |        |
| 164          | 315           | 5.88  | 3.53           |                      |        | 6.8          | 9431          | 216            | 1.30           |                      |        |
| 182          | 283           | 5.28  | 3.92           |                      |        | 7.6          | 8339          | 191            | 1.47           |                      |        |
| 217          | 238           | 6.65  | 1.82           | RX 107<br>RXF107     | 4<br>4 | 9.1          | 7030          | 161            | 1.74           | R 167<br>RF167       | 4<br>4 |
| 257          | 200           | 5.60  | 2.14           |                      |        | 3.7          | 18366         | 196.41         | 0.92           |                      |        |
| 277          | 186           | 5.19  | 3.52           |                      |        | 4.5          | 15036         | 160.80         | 1.13           |                      |        |
| 310          | 166           | 4.65  | 3.93           |                      |        | 5.5          | 12197         | 130.44         | 1.39           |                      |        |
| 247          | 208           | 5.82  | 1.9            | RX 97<br>RXF97       | 4<br>4 | 6.0          | 11314         | 120.99         | 1.50           |                      |        |
| 297          | 173           | 4.85  | 2.1            |                      |        | 6.9          | 9763          | 104.41         | 1.73           |                      |        |
| 319          | 162           | 4.52  | 3.5            |                      |        | 4.9          | 13775         | 196.41         | 1.23           |                      |        |
| 356          | 144           | 4.04  | 3.9            |                      |        | 6.0          | 11277         | 160.80         | 1.50           |                      |        |
| 396          | 130           | 3.64  | 4.3            |                      |        | 7.4          | 9145          | 130.44         | 1.84           |                      |        |
| 436          | 118           | 3.30  | 4.7            |                      |        | 7.9          | 8485          | 120.99         | 1.99           |                      |        |
| 493          | 104           | 2.92  | 5.4            |                      |        | 9.2          | 7323          | 104.41         | 2.31           |                      |        |
| 545          | 94            | 2.64  | 5.9            |                      |        | 10           | 6462          | 92.14          | 2.6            |                      |        |
| 643          | 80            | 2.24  | 7.0            |                      |        | 12           | 5602          | 79.88          | 3.0            |                      |        |
| 735          | 70            | 1.96  | 7.6            |                      |        | 14           | 4984          | 71.07          | 3.4            |                      |        |
| 878          | 59            | 1.64  | 8.1            |                      |        | 15           | 4487          | 63.98          | 3.8            |                      |        |
| 1014         | 51            | 1.42  | 8.4            | 16                   | 4103   | 58.51        | 4.1           | R 147<br>RF147 | 8<br>8         |                      |        |
| 320          | 161           | 4.50  | 1.7            | 4.4                  | 15285  | 163.46       | 0.80          |                |                |                      |        |
| 381          | 135           | 3.78  | 2.1            | 4.9                  | 13732  | 146.85       | 0.89          |                |                |                      |        |
| 414          | 124           | 3.48  | 3.1            | 6.0                  | 11150  | 119.24       | 1.09          |                |                |                      |        |
| 466          | 110           | 3.09  | 3.4            | 6.6                  | 10289  | 110.03       | 1.20          |                |                |                      |        |
| 522          | 99            | 2.76  | 3.9            | RX 87<br>RXF87       | 4<br>4 | 5.9          | 11464         | 163.46         | 1.07           | R 147<br>RF147       | 6<br>6 |
| 581          | 89            | 2.48  | 4.3            |                      |        | 6.5          | 10299         | 146.85         | 1.19           |                      |        |
| 670          | 77            | 2.15  | 4.7            |                      |        | 8.0          | 8363          | 119.24         | 1.45           |                      |        |
| 443          | 116           | 3.25  | 1.47           |                      |        | 8.8          | 7717          | 110.03         | 1.59           |                      |        |
| 468          | 110           | 3.08  | 1.65           |                      |        | 10           | 6635          | 94.60          | 1.84           |                      |        |
| 533          | 97            | 2.70  | 2.1            |                      |        | 12           | 5854          | 83.47          | 2.1            |                      |        |
| 593          | 87            | 2.43  | 2.3            |                      |        | 7.7          | 8677          | 188.16         | 0.87           | R 137<br>RF137       | 4<br>4 |
| 676          | 76            | 2.13  | 2.5            | 8.4                  | 8042   | 174.40       | 0.94          |                |                |                      |        |
| 766          | 67            | 1.88  | 2.6            | 9.3                  | 7208   | 156.31       | 1.04          |                |                |                      |        |
| 862          | 60            | 1.67  | 2.7            | 10                   | 6508   | 141.12       | 1.16          |                |                |                      |        |
| 1014         | 51            | 1.42  | 2.9            | 11                   | 5911   | 128.18       | 1.27          |                |                |                      |        |
| 567          | 91            | 2.54  | 1.22           | RX 77<br>RXF77       | 4<br>4 | 13           | 5244          | 113.72         | 1.43           | R 107<br>RF107       | 4<br>4 |
| 600          | 86            | 2.40  | 1.35           |                      |        | 14           | 4759          | 103.20         | 1.58           |                      |        |
| 706          | 73            | 2.04  | 1.73           |                      |        | 16           | 4090          | 88.70          | 1.84           |                      |        |
| 774          | 66            | 1.86  | 1.78           |                      |        | 18           | 3731          | 80.91          | 2.0            |                      |        |
| 894          | 58            | 1.61  | 1.86           |                      |        | 20           | 3389          | 73.49          | 2.2            |                      |        |
| 1029         | 50            | 1.40  | 2.0            |                      |        | 22           | 3007          | 65.20          | 2.5            |                      |        |
| 706          | 73            | 2.04  | 0.89           |                      |        | 25           | 2729          | 59.17          | 2.8            | R 167R97<br>RF167R97 | 4<br>4 |
| 750          | 69            | 1.92  | 0.95           | 29                   | 2345   | 50.86        | 3.2           |                |                |                      |        |
| 873          | 59            | 1.65  | 1.10           | 16                   | 4204   | 91.16        | 0.96          |                |                |                      |        |
| 973          | 53            | 1.48  | 1.21           | 19                   | 3563   | 77.26        | 1.13          |                |                |                      |        |
| 1108         | 46            | 1.30  | 1.27           | 20                   | 3320   | 72.00        | 1.22          |                |                |                      |        |
| 7.5kW        |               |       |                |                      |        | 23           | 2989          | 64.81          | 1.35           |                      |        |
| 2.9          | 22268         | 510   | 0.80           | R 167R97<br>RF167R97 | 4<br>4 | 25           | 2706          | 58.69          | 1.49           |                      |        |
| 3.3          | 19124         | 438   | 0.88           |                      |        | 28           | 2400          | 52.05          | 1.68           |                      |        |
| 3.8          | 16591         | 380   | 1.02           |                      |        | 31           | 2170          | 47.06          | 1.86           |                      |        |
| 4.3          | 14758         | 338   | 1.15           |                      |        | 37           | 1839          | 39.88          | 2.2            |                      |        |
| 4.8          | 13404         | 307   | 1.26           |                      |        | 42           | 1607          | 34.84          | 2.5            |                      |        |
| 5.2          | 12313         | 282   | 1.37           |                      |        | 48           | 1404          | 30.44          | 2.9            |                      |        |
|              |               |       |                |                      |        | 50           | 1344          | 29.14          | 3.0            |                      |        |
|              |               |       |                | 54                   | 1257   | 27.25        | 3.2           |                |                |                      |        |
|              |               |       |                | 59                   | 1134   | 24.60        | 3.6           |                |                |                      |        |
|              |               |       |                | 65                   | 1030   | 22.34        | 3.9           |                |                |                      |        |



R

| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type     | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type           | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|------------------|-----------|-----------------------|---------------------|------------|-------------------------|------------------------|-----------|
| <b>7.5kW</b>          |                     |            |                         |                  |           | <b>7.5kW</b>          |                     |            |                         |                        |           |
| 24                    | 2760                | 59.84      | 1.02                    | R 97<br>RF97     | 4         | 123                   | 572                 | 5.88       | 2.94                    | RX 127                 | 6         |
| 27                    | 2451                | 53.14      | 1.15                    |                  |           | 136                   | 515                 | 5.28       | 3.26                    | RXF127                 | 6         |
| 31                    | 2191                | 47.51      | 1.29                    |                  |           | 167                   | 420                 | 4.29       | 4.0                     |                        |           |
| 34                    | 1970                | 42.72      | 1.43                    |                  |           | 221                   | 318                 | 6.47       | 3.49                    | RX 127                 | 4         |
| 39                    | 1710                | 37.08      | 1.65                    |                  |           | 245                   | 286                 | 5.88       | 3.88                    | RXF127                 | 4         |
| 44                    | 1531                | 33.20      | 1.72                    |                  |           | 220                   | 320                 | 6.65       | 1.35                    | RX 107<br>RXF107       | 4         |
| 45                    | 1486                | 32.22      | 1.77                    |                  |           | 260                   | 269                 | 5.60       | 1.59                    |                        |           |
| 53                    | 1270                | 27.54      | 1.94                    |                  |           | 281                   | 250                 | 5.19       | 2.6                     |                        |           |
| 54                    | 1238                | 26.84      | 1.98                    |                  |           | 314                   | 224                 | 4.65       | 2.9                     |                        |           |
| 58                    | 1154                | 25.03      | 2.30                    |                  |           | 348                   | 202                 | 4.20       | 3.9                     |                        |           |
| 65                    | 1032                | 22.37      | 2.48                    | R 87<br>RF87     | 4         | 251                   | 280                 | 5.82       | 1.41                    | RX 97<br>RXF97         | 4         |
| 72                    | 929                 | 20.14      | 2.64                    |                  |           | 301                   | 233                 | 4.85       | 1.59                    |                        |           |
| 80                    | 841                 | 18.24      | 2.79                    |                  |           | 323                   | 217                 | 4.52       | 2.6                     |                        |           |
| 40                    | 1694                | 36.73      | 0.86                    |                  |           | 361                   | 194                 | 4.04       | 2.9                     |                        |           |
| 45                    | 1502                | 32.57      | 0.97                    |                  |           | 401                   | 175                 | 3.64       | 3.2                     |                        |           |
| 52                    | 1284                | 27.84      | 1.13                    |                  |           | 442                   | 159                 | 3.30       | 3.5                     | RX 87<br>RXF87         | 4         |
| 53                    | 1282                | 27.81      | 1.1                     |                  |           | 500                   | 140                 | 2.92       | 4.0                     |                        |           |
| 62                    | 1079                | 23.40      | 1.35                    |                  |           | 324                   | 216                 | 4.50       | 1.26                    |                        |           |
| 68                    | 992                 | 21.51      | 1.42                    |                  |           | 386                   | 182                 | 3.78       | 1.58                    |                        |           |
| 76                    | 881                 | 19.10      | 1.54                    |                  |           | 420                   | 167                 | 3.48       | 2.3                     |                        |           |
| 85                    | 788                 | 17.08      | 1.66                    |                  |           | 472                   | 149                 | 3.09       | 2.6                     |                        |           |
| 95                    | 708                 | 15.35      | 1.78                    |                  |           | 529                   | 133                 | 2.76       | 2.9                     |                        |           |
| 110                   | 615                 | 13.33      | 1.96                    |                  |           | 589                   | 119                 | 2.48       | 3.2                     |                        |           |
| 122                   | 550                 | 11.93      | 2.1                     |                  |           | 679                   | 103                 | 2.15       | 3.5                     |                        |           |
| 147                   | 457                 | 9.90       | 2.4                     |                  |           | 756                   | 93                  | 1.93       | 3.6                     |                        |           |
| 158                   | 427                 | 9.25       | 2.7                     |                  |           | 913                   | 77                  | 1.60       | 3.8                     |                        |           |
| 175                   | 384                 | 8.32       | 2.8                     |                  |           | 1050                  | 67                  | 1.39       | 4.1                     |                        |           |
| 202                   | 333                 | 7.22       | 3.0                     |                  |           | 449                   | 156                 | 3.25       | 1.09                    | RX 77<br>RXF77         | 4         |
| 226                   | 298                 | 6.47       | 3.2                     |                  |           | 474                   | 148                 | 3.08       | 1.23                    |                        |           |
| 272                   | 247                 | 5.36       | 3.5                     |                  |           | 541                   | 130                 | 2.70       | 1.56                    |                        |           |
| 78                    | 867                 | 18.80      | 0.85                    | R 77<br>RF77     | 4         | 601                   | 117                 | 2.43       | 1.73                    |                        |           |
| 82                    | 822                 | 17.82      | 0.89                    |                  |           | 685                   | 102                 | 2.13       | 1.84                    |                        |           |
| 94                    | 719                 | 15.60      | 0.97                    |                  |           | 777                   | 90                  | 1.88       | 1.94                    |                        |           |
| 104                   | 648                 | 14.05      | 1.04                    |                  |           | 874                   | 80                  | 1.67       | 2.0                     |                        |           |
| 118                   | 569                 | 12.33      | 1.14                    |                  |           | 1028                  | 68                  | 1.42       | 2.1                     |                        |           |
| 134                   | 502                 | 10.88      | 1.24                    |                  |           | 575                   | 122                 | 2.54       | 0.91                    | RX 67<br>RXF67         | 4         |
| 151                   | 445                 | 9.64       | 1.33                    |                  |           | 608                   | 115                 | 2.40       | 1.00                    |                        |           |
| 173                   | 388                 | 8.42       | 1.53                    |                  |           | 716                   | 98                  | 2.04       | 1.28                    |                        |           |
| 192                   | 350                 | 7.59       | 1.64                    |                  |           | 785                   | 89                  | 1.86       | 1.32                    |                        |           |
| 219                   | 307                 | 6.66       | 1.78                    |                  |           | 907                   | 77                  | 1.61       | 1.38                    |                        |           |
| 248                   | 271                 | 5.88       | 1.87                    | R 67<br>RF67     | 4         | 1043                  | 67                  | 1.40       | 1.45                    |                        |           |
| 280                   | 240                 | 5.21       | 2.00                    |                  |           | <b>11kW</b>           |                     |            |                         |                        |           |
| 115                   | 586                 | 12.70      | 0.83                    |                  |           | 4.9                   | 18891               | 295        | 0.90                    | R 167R107<br>RF167R107 | 4         |
| 127                   | 532                 | 11.54      | 0.88                    |                  |           | 5.1                   | 18379               | 287        | 0.92                    |                        |           |
| 146                   | 461                 | 10.00      | 0.96                    |                  |           | 5.2                   | 17994               | 281        | 0.94                    |                        |           |
| 168                   | 401                 | 8.70       | 0.99                    |                  |           | 6.1                   | 15241               | 238        | 1.11                    |                        |           |
| 187                   | 359                 | 7.79       | 1.02                    |                  |           | 7.0                   | 13320               | 208        | 1.27                    |                        |           |
| 198                   | 339                 | 7.36       | 1.03                    |                  |           | 8.3                   | 11271               | 176        | 1.50                    |                        |           |
| 233                   | 289                 | 6.27       | 1.07                    | R 57<br>RF57     | 4         | 4.3                   | 21645               | 338        | 0.80                    | R 167R97<br>RF167R97   | 4         |
| 256                   | 263                 | 5.70       | 1.11                    |                  |           | 4.8                   | 19659               | 307        | 0.86                    |                        |           |
| 296                   | 227                 | 4.93       | 1.20                    |                  |           | 5.2                   | 18059               | 282        | 0.94                    |                        |           |
| 340                   | 198                 | 4.29       | 1.28                    |                  |           | 5.8                   | 16009               | 250        | 0.80                    | R 147R87<br>RF147R87   | 4         |
| 183                   | 368                 | 7.97       | 0.91                    |                  |           | 6.8                   | 13832               | 216        | 0.88                    |                        |           |
| 194                   | 347                 | 7.53       | 0.95                    |                  |           | 7.6                   | 12231               | 191        | 1.00                    |                        |           |
| 228                   | 296                 | 6.41       | 1.07                    |                  |           | 9.1                   | 10310               | 161        | 1.19                    |                        |           |
| 251                   | 268                 | 5.82       | 1.12                    |                  |           | 9.2                   | 10182               | 159        | 1.20                    |                        |           |
| 289                   | 233                 | 5.05       | 1.23                    | RX 127<br>RXF127 | 8         |                       |                     |            |                         |                        |           |
| 333                   | 202                 | 4.39       | 1.30                    |                  |           |                       |                     |            |                         |                        |           |
| 123                   | 572                 | 5.88       | 1.94                    | RX 157<br>RXF157 | 6         |                       |                     |            |                         |                        |           |
| 156                   | 449                 | 6.22       | 3.74                    |                  |           |                       |                     |            |                         |                        |           |



| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>f <sub>B</sub> | Type<br>Type   | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>f <sub>B</sub> | Type<br>Type     | Pole<br>p |
|-----------------------|---------------------|------------|----------------------------------|----------------|-----------|-----------------------|---------------------|------------|----------------------------------|------------------|-----------|
| <b>11kW</b>           |                     |            |                                  |                |           | <b>11kW</b>           |                     |            |                                  |                  |           |
| 6.0                   | 16540               | 160.80     | 1.02                             | R 167<br>RF167 | 6         | 135                   | 732                 | 10.83      | 2.7                              | R 97<br>RF97     | 4         |
| 7.4                   | 13417               | 130.44     | 1.26                             |                | 6         | 158                   | 626                 | 9.26       | 3.0                              |                  | 4         |
| 7.9                   | 12445               | 120.99     | 1.36                             |                |           | 174                   | 566                 | 8.37       | 3.4                              |                  |           |
| 9.2                   | 10740               | 104.41     | 1.58                             |                |           | 206                   | 480                 | 7.09       | 3.9                              |                  |           |
|                       |                     |            |                                  |                |           | 235                   | 419                 | 6.20       | 4.2                              |                  |           |
| 7.4                   | 13284               | 196.41     | 1.27                             | R 167<br>RF167 | 4         | 68                    | 1455                | 21.51      | 0.97                             | R 87<br>RF87     | 4         |
| 9.1                   | 10876               | 160.80     | 1.56                             |                | 4         | 76                    | 1292                | 19.10      | 1.05                             |                  |           |
| 11                    | 8822                | 130.44     | 1.91                             |                |           | 85                    | 1155                | 17.08      | 1.13                             |                  |           |
| 12                    | 8183                | 120.99     | 2.07                             |                |           | 95                    | 1038                | 15.35      | 1.21                             |                  |           |
| 14                    | 7062                | 104.41     | 2.4                              |                |           | 110                   | 902                 | 13.33      | 1.33                             |                  |           |
| 16                    | 6232                | 92.14      | 2.7                              |                |           | 122                   | 807                 | 11.93      | 1.43                             |                  |           |
| 18                    | 5403                | 79.88      | 3.1                              |                |           | 147                   | 670                 | 9.90       | 1.66                             |                  |           |
| 21                    | 4807                | 71.07      | 3.5                              |                |           | 158                   | 626                 | 9.25       | 1.82                             |                  |           |
| 6.5                   | 15105               | 146.85     | 0.81                             | R 147<br>RF147 | 6         | 175                   | 563                 | 8.32       | 1.94                             |                  |           |
| 8.1                   | 12265               | 119.24     | 1.0                              |                | 6         | 202                   | 488                 | 7.22       | 2.1                              |                  |           |
| 8.7                   | 11318               | 110.03     | 1.08                             |                |           | 226                   | 438                 | 6.47       | 2.2                              |                  |           |
| 10                    | 9731                | 94.60      | 1.26                             |                |           | 272                   | 363                 | 5.36       | 2.4                              |                  |           |
| 12                    | 8586                | 83.47      | 1.42                             |                |           |                       |                     |            |                                  |                  |           |
| 8.9                   | 11056               | 163.46     | 1.11                             | R 147<br>RF147 | 4         | 134                   | 736                 | 10.88      | 0.84                             | R 77<br>RF77     | 4         |
| 10                    | 9932                | 146.85     | 1.23                             |                | 4         | 151                   | 652                 | 9.64       | 0.91                             |                  |           |
| 12                    | 8065                | 119.24     | 1.52                             |                |           | 192                   | 513                 | 7.59       | 1.12                             |                  |           |
| 13                    | 7442                | 110.03     | 1.64                             |                |           | 219                   | 450                 | 6.66       | 1.21                             |                  |           |
| 15                    | 6398                | 94.60      | 1.91                             |                |           | 248                   | 398                 | 5.88       | 1.28                             |                  |           |
| 17                    | 5645                | 83.47      | 2.2                              |                |           | 280                   | 352                 | 5.21       | 1.36                             |                  |           |
| 20                    | 4876                | 72.09      | 2.5                              |                |           | 191                   | 539                 | 5.05       | 3.12                             | RX 157<br>RXF157 | 6         |
| 22                    | 4508                | 66.65      | 2.7                              |                |           | 209                   | 492                 | 4.68       | 3.41                             |                  | 6         |
| 24                    | 4129                | 61.50      | 3.0                              |                |           | 240                   | 429                 | 4.04       | 3.92                             |                  |           |
| 28                    | 3576                | 52.87      | 3.4                              |                |           | 235                   | 437                 | 6.22       | 3.84                             | RX 157<br>RXF157 | 4         |
| 10                    | 9545                | 141.12     | 0.80                             | R 137<br>RF137 | 4         |                       |                     |            |                                  |                  |           |
| 11                    | 8669                | 128.18     | 0.87                             |                | 4         | 249                   | 414                 | 5.88       | 2.68                             | RX 127<br>RXF127 | 4         |
| 13                    | 7691                | 113.72     | 0.98                             |                |           | 277                   | 372                 | 5.28       | 2.98                             |                  |           |
| 14                    | 6980                | 103.2      | 1.08                             |                |           | 339                   | 304                 | 4.29       | 3.65                             |                  | 4         |
| 16                    | 5999                | 88.70      | 1.25                             |                |           | 372                   | 277                 | 3.95       | 4.01                             |                  |           |
| 18                    | 5472                | 80.91      | 1.37                             |                |           | 281                   | 366                 | 5.19       | 1.79                             | RX 107<br>RXF107 | 4         |
| 20                    | 4970                | 73.49      | 1.51                             |                |           | 314                   | 328                 | 4.65       | 1.99                             |                  |           |
| 22                    | 4410                | 65.20      | 1.71                             |                |           | 348                   | 296                 | 4.20       | 2.63                             |                  | 4         |
| 25                    | 4002                | 59.17      | 1.88                             |                |           | 383                   | 269                 | 3.81       | 2.90                             |                  |           |
| 29                    | 3440                | 50.86      | 2.2                              |                |           | 432                   | 238                 | 3.38       | 3.27                             |                  | 4         |
| 33                    | 3002                | 44.39      | 2.5                              |                |           | 476                   | 216                 | 3.07       | 3.60                             |                  |           |
| 39                    | 2540                | 37.65      | 3.0                              |                |           | 553                   | 186                 | 2.64       | 4.19                             |                  |           |
| 44                    | 2226                | 32.91      | 3.4                              |                |           | 323                   | 319                 | 4.52       | 1.75                             | RX 97<br>RXF97   | 4         |
| 23                    | 4383                | 64.81      | 0.92                             | R 107<br>RF107 | 4         | 361                   | 285                 | 4.04       | 1.96                             |                  |           |
| 25                    | 3969                | 58.69      | 1.02                             |                | 4         | 401                   | 257                 | 3.64       | 2.2                              |                  |           |
| 28                    | 3520                | 52.05      | 1.15                             |                |           | 442                   | 233                 | 3.30       | 2.4                              |                  |           |
| 31                    | 3183                | 47.06      | 1.27                             |                |           | 500                   | 206                 | 2.92       | 2.7                              |                  |           |
| 37                    | 2697                | 39.88      | 1.50                             |                |           | 553                   | 186                 | 2.64       | 3.0                              |                  |           |
| 42                    | 2356                | 34.84      | 1.72                             |                |           | 652                   | 158                 | 2.24       | 3.5                              |                  |           |
| 48                    | 2059                | 30.44      | 1.96                             |                |           | 745                   | 138                 | 1.96       | 3.9                              |                  |           |
| 50                    | 1971                | 29.14      | 2.1                              |                |           | 890                   | 116                 | 1.64       | 4.1                              |                  |           |
| 54                    | 1843                | 27.25      | 2.2                              |                |           | 1028                  | 110                 | 1.42       | 4.3                              |                  |           |
| 59                    | 1664                | 24.60      | 2.4                              |                |           | 420                   | 245                 | 3.48       | 1.55                             | RX 87<br>RXF87   | 4         |
| 65                    | 1511                | 22.34      | 2.7                              |                |           | 472                   | 218                 | 3.09       | 1.75                             |                  |           |
| 74                    | 1341                | 19.82      | 3.0                              |                |           | 529                   | 195                 | 2.76       | 1.96                             |                  |           |
| 81                    | 1217                | 17.99      | 3.3                              |                |           | 589                   | 175                 | 2.48       | 2.2                              |                  |           |
| 34                    | 2889                | 42.72      | 0.98                             | R 97<br>RF97   | 4         | 679                   | 152                 | 2.15       | 2.4                              |                  | 4         |
| 39                    | 2508                | 37.08      | 1.12                             |                | 4         | 756                   | 136                 | 1.93       | 2.5                              |                  |           |
| 44                    | 2245                | 33.20      | 1.21                             |                |           | 913                   | 113                 | 1.60       | 2.6                              |                  |           |
| 53                    | 1863                | 27.54      | 1.35                             |                |           | 1050                  | 98                  | 1.39       | 2.8                              |                  |           |
| 58                    | 1693                | 25.03      | 1.57                             |                |           | 601                   | 171                 | 2.43       | 1.18                             | RX 77<br>RXF77   | 4         |
| 65                    | 1513                | 22.37      | 1.69                             |                |           | 685                   | 150                 | 2.13       | 1.25                             |                  |           |
| 72                    | 1362                | 20.14      | 1.80                             |                |           | 777                   | 133                 | 1.88       | 1.33                             |                  |           |
| 80                    | 1234                | 18.24      | 1.90                             |                |           | 874                   | 118                 | 1.67       | 1.38                             |                  |           |
| 90                    | 1094                | 16.17      | 2.1                              |                |           | 1028                  | 100                 | 1.42       | 1.46                             |                  |           |
| 100                   | 989                 | 14.62      | 2.2                              |                |           |                       |                     |            |                                  |                  |           |
| 118                   | 838                 | 12.39      | 2.5                              |                |           |                       |                     |            |                                  |                  |           |



R

| Output speed | Output torque | Ratio  | Service factor | Type                   | Pole | Output speed | Output torque | Ratio          | Service factor | Type             | Pole |                |   |
|--------------|---------------|--------|----------------|------------------------|------|--------------|---------------|----------------|----------------|------------------|------|----------------|---|
| r/min        | Nm            | i      | f <sub>B</sub> | Type                   | p    | r/min        | Nm            | i              | f <sub>B</sub> | Type             | p    |                |   |
| 15kW         |               |        |                |                        |      | 15kW         |               |                |                |                  |      |                |   |
| 6.1          | 20783         | 238    | 0.81           | R 167R107<br>RF167R107 | 4    | 53           | 2540          | 27.54          | 1.1            | R 97<br>RF97     | 4    |                |   |
| 6.5          | 19560         | 224    | 0.87           |                        |      | 58           | 2309          | 25.03          | 1.15           |                  |      |                |   |
| 7.0          | 18163         | 208    | 0.93           |                        |      | 65           | 2063          | 22.37          | 1.24           |                  |      |                |   |
| 7.5          | 17028         | 195    | 0.99           |                        |      | 72           | 1858          | 20.14          | 1.32           |                  |      |                |   |
| 8.3          | 15369         | 176    | 1.10           |                        |      | 80           | 1682          | 18.24          | 1.40           |                  |      |                |   |
| 7.4          | 18201         | 130.44 | 0.93           | R 167<br>RF167         | 6    | 90           | 1491          | 16.17          | 1.51           |                  |      |                |   |
| 8.0          | 16883         | 120.99 | 1.00           |                        |      | 100          | 1348          | 14.62          | 1.6            |                  |      |                |   |
| 9.2          | 14569         | 104.41 | 1.16           |                        |      | 118          | 1143          | 12.39          | 1.8            |                  |      |                |   |
| 11           | 12857         | 92.14  | 1.32           |                        |      | 135          | 999           | 10.83          | 2.0            |                  |      |                |   |
|              |               |        |                |                        |      | 158          | 854           | 9.26           | 2.4            |                  |      |                |   |
| 7.4          | 18115         | 196.41 | 0.93           | R 167<br>RF167         | 4    | 174          | 772           | 8.37           | 2.5            | R 87<br>RF87     | 4    |                |   |
| 9.1          | 14830         | 160.80 | 1.14           |                        |      | 206          | 654           | 7.09           | 2.9            |                  |      |                |   |
| 11           | 12030         | 130.44 | 1.41           |                        |      | 235          | 572           | 6.20           | 3.1            |                  |      |                |   |
| 12           | 11159         | 120.99 | 1.52           |                        |      | 85           | 1575          | 17.08          | 0.89           |                  |      |                |   |
| 14           | 9630          | 104.41 | 1.76           |                        |      | 95           | 1416          | 15.35          | 0.98           |                  |      |                |   |
| 16           | 8498          | 92.14  | 1.99           |                        |      | 110          | 1229          | 13.33          | 1.05           |                  |      |                |   |
| 18           | 7367          | 79.88  | 2.3            |                        |      | 122          | 1100          | 11.93          | 1.13           |                  |      |                |   |
| 21           | 6555          | 71.07  | 2.6            |                        |      | 147          | 913           | 9.90           | 1.21           |                  |      |                |   |
| 23           | 5901          | 63.98  | 2.9            |                        |      | 158          | 853           | 9.25           | 1.33           |                  |      |                |   |
| 25           | 5396          | 58.51  | 3.1            |                        |      | 175          | 767           | 8.32           | 1.42           |                  |      |                |   |
| 8.8          | 15353         | 110.03 | 0.80           | R 147<br>RF147         | 6    | 202          | 666           | 7.22           | 1.51           | RX 157<br>RXF157 | 4    |                |   |
| 10           | 13200         | 94.60  | 0.93           |                        |      | 226          | 597           | 6.47           | 1.61           |                  |      |                |   |
| 12           | 11647         | 83.47  | 1.05           |                        |      | 272          | 494           | 5.36           | 1.73           |                  |      |                |   |
| 13           | 10059         | 72.09  | 1.21           |                        |      | 287          | 488           | 5.05           | 3.44           |                  |      |                |   |
| 14           | 9300          | 66.65  | 1.31           |                        |      | 315          | 446           | 4.68           | 3.77           |                  |      |                |   |
| 8.9          | 15076         | 163.46 | 0.81           | R 147<br>RF147         | 4    | 361          | 388           | 4.04           | 3.32           | RX 127<br>RXF127 | 4    |                |   |
| 9.9          | 13544         | 146.86 | 0.90           |                        |      | 372          | 378           | 3.95           | 2.94           |                  |      |                |   |
| 12           | 10997         | 119.24 | 1.11           |                        |      | 281          | 479           | 5.19           | 1.36           | RX 107<br>RXF107 | 4    |                |   |
| 13           | 10148         | 110.03 | 1.20           |                        |      | 314          | 429           | 4.65           | 1.52           |                  |      |                |   |
| 15           | 8725          | 94.60  | 1.40           |                        |      | 348          | 387           | 4.20           | 2.0            |                  |      |                |   |
| 17           | 7698          | 83.47  | 1.59           |                        |      | 383          | 351           | 3.81           | 2.2            |                  |      |                |   |
| 20           | 6649          | 72.09  | 1.84           |                        |      | 432          | 325           | 3.38           | 2.4            |                  |      |                |   |
| 22           | 6147          | 66.65  | 1.99           |                        |      | 476          | 295           | 3.07           | 2.6            |                  |      |                |   |
| 24           | 5631          | 61.50  | 2.2            |                        |      | 553          | 254           | 2.64           | 3.1            |                  |      |                |   |
| 28           | 4876          | 52.87  | 2.5            |                        |      | 635          | 221           | 2.30           | 3.5            |                  |      |                |   |
| 31           | 4303          | 46.65  | 2.8            |                        |      | 749          | 188           | 1.95           | 3.8            |                  |      |                |   |
| 14           | 9518          | 103.2  | 0.8            |                        |      | 854          | 164           | 1.71           | 4.0            |                  |      | RX 97<br>RXF97 | 4 |
| 16           | 8181          | 88.70  | 0.92           |                        |      | 1014         | 138           | 1.44           | 4.4            |                  |      |                |   |
| 18           | 7462          | 80.91  | 1.01           |                        |      | 323          | 435           | 4.52           | 1.3            |                  |      |                |   |
| 20           | 6778          | 73.49  | 1.11           | 361                    | 388  | 4.04         | 1.4           |                |                |                  |      |                |   |
| 22           | 6013          | 65.20  | 1.25           | 401                    | 350  | 3.64         | 1.6           |                |                |                  |      |                |   |
| 25           | 5457          | 59.17  | 1.38           | 442                    | 317  | 3.30         | 1.8           |                |                |                  |      |                |   |
| 29           | 4691          | 50.86  | 1.60           | 500                    | 281  | 2.92         | 2.0           |                |                |                  |      |                |   |
| 33           | 4094          | 44.39  | 1.84           | 553                    | 254  | 2.64         | 2.2           |                |                |                  |      |                |   |
| 39           | 3472          | 37.65  | 2.2            | 652                    | 215  | 2.24         | 2.6           |                |                |                  |      |                |   |
| 44           | 3035          | 32.91  | 2.5            | 745                    | 188  | 1.96         | 2.8           |                |                |                  |      |                |   |
| 52           | 2567          | 27.83  | 2.9            | 890                    | 158  | 1.64         | 3.0           |                |                |                  |      |                |   |
| 31           | 4340          | 47.06  | 0.9            | 1028                   | 137  | 1.42         | 3.1           | RX 87<br>RXF87 | 4              |                  |      |                |   |
| 37           | 3678          | 39.88  | 1.10           | 420                    | 335  | 3.48         | 1.14          |                |                |                  |      |                |   |
| 42           | 3213          | 34.84  | 1.26           | 472                    | 297  | 3.09         | 1.28          |                |                |                  |      |                |   |
| 48           | 2807          | 30.44  | 1.44           | 529                    | 265  | 2.76         | 1.43          |                |                |                  |      |                |   |
| 50           | 2688          | 29.14  | 1.50           | 589                    | 238  | 2.48         | 1.60          |                |                |                  |      |                |   |
| 54           | 2513          | 27.25  | 1.61           | 679                    | 207  | 2.15         | 1.75          |                |                |                  |      |                |   |
| 59           | 2269          | 24.60  | 1.78           | 756                    | 186  | 1.93         | 1.80          |                |                |                  |      |                |   |
| 65           | 2060          | 22.34  | 1.96           | 913                    | 154  | 1.60         | 1.92          |                |                |                  |      |                |   |
| 74           | 1828          | 19.82  | 2.2            | 1050                   | 134  | 1.39         | 2.0           |                |                |                  |      |                |   |
| 81           | 1659          | 17.99  | 2.4            |                        |      |              |               |                |                |                  |      |                |   |
| 94           | 1426          | 15.46  | 2.8            |                        |      |              |               |                |                |                  |      |                |   |
| 108          | 1245          | 13.50  | 3.2            |                        |      |              |               |                |                |                  |      |                |   |



| Output speed | Output torque | Ratio  | Service factor | Type           | Pole  | Output speed | Output torque | Ratio  | Service factor | Type             | Pole |
|--------------|---------------|--------|----------------|----------------|-------|--------------|---------------|--------|----------------|------------------|------|
| r/min        | Nm            | i      | f <sub>B</sub> | Type           | p     | r/min        | Nm            | i      | f <sub>B</sub> | Type             | p    |
| 18.5kW       |               |        |                |                |       | 18.5kW       |               |        |                |                  |      |
| 9.1          | 18291         | 160.80 | 0.93           | R 167<br>RF167 | 4     | 110          | 1516          | 13.33  | 0.8            | R 87<br>RF87     | 4    |
| 11           | 14838         | 130.44 | 1.13           |                |       | 122          | 1357          | 11.93  | 0.85           |                  |      |
| 12           | 13763         | 120.99 | 1.24           |                |       | 147          | 1126          | 9.90   | 0.98           |                  |      |
| 14           | 11877         | 104.41 | 1.42           |                |       | 158          | 1052          | 9.25   | 1.08           |                  |      |
| 16           | 10481         | 92.14  | 1.61           |                |       | 175          | 946           | 8.32   | 1.15           |                  |      |
| 18           | 9086          | 79.88  | 1.86           |                |       | 202          | 821           | 7.22   | 1.22           |                  |      |
| 21           | 8084          | 71.07  | 2.1            |                |       | 226          | 736           | 6.47   | 1.30           |                  |      |
| 23           | 7278          | 63.98  | 2.3            |                |       | 272          | 610           | 5.36   | 1.40           |                  |      |
| 25           | 6655          | 58.51  | 2.5            |                |       |              |               |        |                |                  |      |
| 29           | 5791          | 50.91  | 2.9            |                |       |              |               |        |                |                  |      |
|              |               |        |                |                |       | 317          | 547           | 4.68   | 3.07           | RX 157           | 4    |
|              |               |        |                |                |       | 364          | 476           | 4.04   | 3.53           | RXF157           | 4    |
|              |               |        |                |                |       | 412          | 420           | 3.57   | 4.0            |                  |      |
| 12           | 13564         | 119.24 | 0.90           | R 147<br>RF147 | 4     | 348          | 478           | 4.20   | 1.63           | RX 107<br>RXF107 | 4    |
| 13           | 12516         | 110.03 | 0.98           |                |       | 383          | 452           | 3.81   | 1.73           |                  |      |
| 15           | 10761         | 94.60  | 1.14           |                |       | 432          | 401           | 3.38   | 1.95           |                  |      |
| 17           | 9495          | 83.47  | 1.29           |                |       | 476          | 364           | 3.07   | 2.1            |                  |      |
| 20           | 8200          | 72.09  | 1.49           |                |       | 553          | 313           | 2.64   | 2.5            |                  |      |
| 22           | 7581          | 66.65  | 1.61           |                |       | 635          | 273           | 2.30   | 2.9            |                  |      |
| 24           | 6944          | 61.50  | 1.76           |                |       | 749          | 231           | 1.95   | 3.1            |                  |      |
| 28           | 6014          | 52.87  | 2.0            |                |       | 854          | 203           | 1.71   | 3.3            |                  |      |
| 31           | 5306          | 46.65  | 2.3            |                |       | 1014         | 171           | 1.44   | 3.6            |                  |      |
| 36           | 4583          | 40.29  | 2.7            |                |       |              |               |        |                |                  |      |
| 18           | 9203          | 80.91  | 0.82           | R 137<br>RF137 | 4     | 401          | 432           | 3.64   | 1.30           | RX 97<br>RXF97   | 4    |
| 20           | 8359          | 73.49  | 0.90           |                |       | 442          | 391           | 3.30   | 1.43           |                  |      |
| 22           | 7416          | 65.20  | 1.01           |                |       | 500          | 346           | 2.92   | 1.62           |                  |      |
| 25           | 6731          | 59.17  | 1.12           |                |       | 553          | 313           | 2.64   | 1.79           |                  |      |
| 29           | 5785          | 50.86  | 1.30           |                |       | 652          | 266           | 2.24   | 2.1            |                  |      |
| 33           | 5049          | 44.39  | 1.49           |                |       | 745          | 232           | 1.96   | 2.3            |                  |      |
| 39           | 4283          | 37.65  | 1.76           |                |       | 890          | 194           | 1.64   | 2.4            |                  |      |
| 44           | 3744          | 32.91  | 2.0            |                |       | 1028         | 168           | 1.42   | 2.5            |                  |      |
| 49           | 3362          | 29.56  | 2.2            |                |       |              |               |        |                |                  |      |
| 52           | 3166          | 27.83  | 2.3            |                |       | 529          | 327           | 2.76   | 1.16           |                  |      |
| 61           | 2730          | 24.00  | 2.7            | 589            | 294   | 2.48         | 1.29          |        |                |                  |      |
| 66           | 2520          | 22.15  | 3.0            | 679            | 255   | 2.15         | 1.42          |        |                |                  |      |
| 77           | 2166          | 19.04  | 3.5            | 756            | 229   | 1.93         | 1.46          |        |                |                  |      |
| 87           | 1911          | 16.80  | 3.9            | 913            | 190   | 1.60         | 1.56          |        |                |                  |      |
|              |               |        |                | 1050           | 165   | 1.39         | 1.65          |        |                |                  |      |
|              |               |        |                |                |       |              |               |        |                |                  |      |
|              |               |        |                |                |       | 22kW         |               |        |                |                  |      |
| 37           | 4536          | 39.88  | 0.89           | R 107<br>RF107 | 4     | 11           | 17645         | 130.44 | 0.95           | R 167<br>RF167   | 4    |
| 42           | 3963          | 34.84  | 1.02           |                |       | 12           | 16366         | 120.99 | 1.04           |                  |      |
| 50           | 3315          | 29.14  | 1.22           |                |       | 14           | 14124         | 104.41 | 1.20           |                  |      |
| 59           | 2798          | 24.60  | 1.44           |                |       | 16           | 12464         | 92.14  | 1.36           |                  |      |
| 65           | 2541          | 22.34  | 1.59           |                |       | 18           | 10805         | 79.88  | 1.57           |                  |      |
| 74           | 2255          | 19.82  | 1.79           |                |       | 21           | 9614          | 71.07  | 1.76           |                  |      |
| 81           | 2046          | 17.99  | 1.98           |                |       | 23           | 8655          | 63.98  | 2.0            |                  |      |
| 94           | 1759          | 15.46  | 2.3            |                |       | 25           | 7915          | 58.51  | 2.1            |                  |      |
| 108          | 1536          | 13.50  | 2.3            |                |       | 29           | 6887          | 50.91  | 2.5            |                  |      |
| 128          | 1302          | 11.45  | 3.1            |                |       | 32           | 6078          | 44.93  | 2.8            |                  |      |
| 146          | 1139          | 10.01  | 3.5            |                |       | 37           | 5269          | 38.95  | 3.2            |                  |      |
| 181          | 918           | 8.07   | 3.0            |                |       |              |               |        |                |                  |      |
| 213          | 778           | 6.84   | 3.6            |                |       |              |               |        |                |                  |      |
|              |               |        |                |                |       |              |               |        |                |                  |      |
|              |               |        |                |                |       |              |               |        |                |                  |      |
| 72           | 2291          | 20.14  | 1.07           |                |       | R 97<br>RF97 | 4             | 13     | 14884          |                  |      |
| 80           | 2075          | 18.24  | 1.13           | 15             | 12797 |              |               | 94.60  | 0.95           |                  |      |
| 90           | 1839          | 16.17  | 1.23           | 17             | 11291 |              |               | 83.47  | 1.08           |                  |      |
| 100          | 1663          | 14.62  | 1.30           | 20             | 9752  |              |               | 72.09  | 1.3            |                  |      |
| 118          | 1409          | 12.39  | 1.46           | 22             | 9016  |              |               | 66.65  | 1.36           |                  |      |
| 135          | 1232          | 10.83  | 1.59           | 24             | 8258  |              |               | 61.50  | 1.48           |                  |      |
| 158          | 1053          | 9.26   | 1.81           | 28             | 7152  |              |               | 52.87  | 1.71           |                  |      |
| 174          | 952           | 8.37   | 2.0            | 31             | 6310  |              |               | 46.65  | 1.94           |                  |      |
| 206          | 806           | 7.09   | 2.3            | 36             | 5450  |              |               | 40.29  | 2.2            |                  |      |
| 235          | 705           | 6.20   | 2.5            | 41             | 4821  |              |               | 35.64  | 2.5            |                  |      |
| 282          | 589           | 5.18   | 2.8            | 49             | 4051  |              |               | 29.95  | 3.0            |                  |      |
| 328          | 511           | 4.49   | 3.0            |                |       |              |               |        |                |                  |      |



R

| Output speed | Output torque | Ratio | Service factor | Type             | Pole  | Output speed | Output torque | Ratio          | Service factor | Type           | Pole |
|--------------|---------------|-------|----------------|------------------|-------|--------------|---------------|----------------|----------------|----------------|------|
| r/min        | Nm            | i     | f <sub>B</sub> | Type             | p     | r/min        | Nm            | i              | f <sub>B</sub> | Type           | p    |
| 22kW         |               |       |                |                  |       | 22kW         |               |                |                |                |      |
| 22           | 8820          | 65.20 | 0.85           | R 137<br>RF137   | 4     | 652          | 316           | 2.24           | 1.77           | RX 97<br>RXF97 | 4    |
| 25           | 8004          | 59.17 | 0.94           |                  |       | 745          | 276           | 1.96           | 1.94           |                |      |
| 29           | 6880          | 50.86 | 1.09           |                  |       | 890          | 231           | 1.64           | 2.05           |                |      |
| 33           | 6005          | 44.39 | 1.25           |                  |       | 1028         | 200           | 1.42           | 2.14           |                |      |
| 39           | 5093          | 37.65 | 1.48           |                  |       | 529          | 389           | 2.76           | 0.98           | RX 87<br>RXF87 | 4    |
| 44           | 4452          | 32.91 | 1.69           |                  |       | 589          | 350           | 2.48           | 1.09           |                |      |
| 49           | 3999          | 29.56 | 1.88           |                  |       | 679          | 303           | 2.15           | 1.19           |                |      |
| 52           | 3765          | 27.83 | 2.00           |                  |       | 756          | 272           | 1.93           | 1.23           |                |      |
| 61           | 3246          | 24.00 | 2.3            |                  |       | 913          | 226           | 1.60           | 1.31           |                |      |
| 66           | 2996          | 22.15 | 2.5            |                  |       | 1050         | 196           | 1.39           | 1.39           |                |      |
| 77           | 2576          | 19.04 | 2.9            |                  |       | 30kW         |               |                |                |                |      |
| 87           | 2273          | 16.80 | 3.3            |                  |       | 16           | 16996         | 92.14          | 1.0            | R 167<br>RF167 | 4    |
| 101          | 1963          | 14.51 | 3.8            |                  |       | 18           | 14735         | 79.88          | 1.15           |                |      |
| 114          | 1736          | 12.83 | 4.3            |                  |       | 21           | 13109         | 71.07          | 1.29           |                |      |
| 42           | 4713          | 34.84 | 0.86           | 23               | 11802 | 63.98        | 1.43          |                |                |                |      |
| 50           | 3942          | 29.14 | 1.03           | 25               | 10793 | 58.51        | 1.57          |                |                |                |      |
| 59           | 3328          | 24.60 | 1.21           | 29               | 9391  | 50.91        | 1.80          |                |                |                |      |
| 65           | 3022          | 22.34 | 1.34           | 32               | 8288  | 44.93        | 2.04          |                |                |                |      |
| 74           | 2681          | 19.82 | 1.51           | 37               | 7185  | 38.95        | 2.4           |                |                |                |      |
| 81           | 2434          | 17.99 | 1.66           | 42               | 6393  | 34.66        | 2.6           |                |                |                |      |
| 94           | 2091          | 15.46 | 1.93           | 49               | 5510  | 29.87        | 3.1           |                |                |                |      |
| 108          | 1826          | 13.50 | 2.2            | 60               | 4477  | 24.27        | 3.8           |                |                |                |      |
| 128          | 1549          | 11.45 | 2.6            | 71               | 3796  | 20.58        | 4.5           |                |                |                |      |
| 146          | 1354          | 10.01 | 2.7            | 17               | 15397 | 83.47        | 0.8           | R 147<br>RF147 | 4              |                |      |
| 173          | 1144          | 8.46  | 2.9            | 20               | 13298 | 72.09        | 0.92          |                |                |                |      |
| 181          | 1092          | 8.07  | 3.0            | 22               | 12294 | 66.65        | 0.99          |                |                |                |      |
| 213          | 925           | 6.84  | 3.2            | 24               | 11261 | 61.50        | 1.09          |                |                |                |      |
| 244          | 809           | 5.98  | 3.5            | 28               | 9752  | 52.87        | 1.25          |                |                |                |      |
| 72           | 2724          | 20.14 | 1.04           | 31               | 8605  | 46.65        | 1.42          |                |                |                |      |
| 80           | 2467          | 18.24 | 1.14           | 36               | 7432  | 40.29        | 1.64          |                |                |                |      |
| 90           | 2187          | 16.17 | 1.23           | 41               | 6574  | 35.64        | 1.86          |                |                |                |      |
| 100          | 1978          | 14.62 | 1.29           | 49               | 5525  | 29.95        | 2.2           |                |                |                |      |
| 118          | 1676          | 12.39 | 1.34           | 60               | 4462  | 24.19        | 2.5           |                |                |                |      |
| 135          | 1465          | 10.83 | 1.43           | 71               | 3770  | 20.44        | 3.0           |                |                |                |      |
| 158          | 1253          | 9.26  | 1.52           | 81               | 3328  | 18.04        | 3.0           |                |                |                |      |
| 174          | 1132          | 8.37  | 1.69           | 93               | 2885  | 15.64        | 4.2           |                |                |                |      |
| 206          | 959           | 7.09  | 1.96           | 29               | 9382  | 50.86        | 0.80          |                |                | R 137<br>RF137 | 4    |
| 235          | 839           | 6.20  | 2.1            | 33               | 8188  | 44.39        | 0.92          |                |                |                |      |
| 282          | 701           | 5.18  | 2.4            | 39               | 6945  | 37.65        | 1.08          |                |                |                |      |
| 325          | 607           | 4.49  | 2.5            | 44               | 6071  | 32.91        | 1.24          |                |                |                |      |
| 147          | 1339          | 9.90  | 0.83           | 52               | 5133  | 27.83        | 1.41          |                |                |                |      |
| 158          | 1251          | 9.25  | 0.91           | 61               | 4427  | 24.00        | 1.69          |                |                |                |      |
| 175          | 1125          | 8.32  | 0.97           | 66               | 4086  | 22.15        | 1.85          |                |                |                |      |
| 202          | 977           | 7.22  | 1.03           | 77               | 3512  | 19.04        | 2.1           |                |                |                |      |
| 226          | 875           | 6.47  | 1.10           | 87               | 3099  | 16.80        | 2.4           |                |                |                |      |
| 272          | 725           | 5.36  | 1.18           | 101              | 2676  | 14.51        | 2.8           |                |                |                |      |
| 412          | 500           | 3.57  | 3.36           | RX 157<br>RXF157 | 4     | 114          | 2367          | 12.83          | 3.2            |                |      |
| 348          | 592           | 4.20  | 1.32           | RX 107<br>RXF107 | 4     | 135          | 1990          | 10.79          | 3.8            |                |      |
| 383          | 537           | 3.81  | 1.45           |                  |       | 192          | 1400          | 7.59           | 3.4            |                |      |
| 432          | 477           | 3.38  | 1.64           |                  |       | 229          | 1177          | 6.38           | 4.1            |                |      |
| 476          | 433           | 3.07  | 1.80           |                  |       | 74           | 3656          | 19.82          | 1.11           |                |      |
| 553          | 372           | 2.64  | 2.10           |                  |       | 81           | 3318          | 17.99          | 1.22           |                |      |
| 635          | 324           | 2.30  | 2.41           |                  |       | 94           | 2852          | 15.46          | 1.42           |                |      |
| 749          | 275           | 1.95  | 2.61           |                  |       | 108          | 2490          | 13.50          | 1.62           |                |      |
| 854          | 241           | 1.71  | 2.75           |                  |       | 128          | 2112          | 11.45          | 1.88           |                |      |
| 1014         | 203           | 1.44  | 2.99           | 146              | 1846  | 10.01        | 1.91          | R 107<br>RF107 | 4              |                |      |
| 401          | 513           | 3.64  | 1.09           | 173              | 1561  | 8.46         | 2.2           |                |                |                |      |
| 442          | 465           | 3.30  | 1.20           | 181              | 1489  | 8.07         | 2.2           |                |                |                |      |
| 500          | 412           | 2.92  | 1.36           | 213              | 1262  | 6.84         | 2.5           |                |                |                |      |
| 553          | 372           | 2.64  | 1.50           | 244              | 1103  | 5.98         | 2.6           |                |                |                |      |
|              |               |       |                | 289              | 933   | 5.06         | 2.9           |                |                |                |      |





| Output speed | Output torque | Ratio | Service factor | Type             | Pole  | Output speed     | Output torque | Ratio | Service factor | Type           | Pole |                |      |
|--------------|---------------|-------|----------------|------------------|-------|------------------|---------------|-------|----------------|----------------|------|----------------|------|
| r/min        | Nm            | i     | f <sub>B</sub> | Type             | p     | r/min            | Nm            | i     | f <sub>B</sub> | Type           | p    |                |      |
| 30kW         |               |       |                |                  |       | 37kW             |               |       |                |                |      |                |      |
| 100          | 2697          | 14.62 | 0.80           | R 97<br>RF97     | 4     | 39               | 8507          | 37.65 | 0.88           | R 137<br>RF137 | 4    |                |      |
| 118          | 2285          | 12.39 | 0.90           |                  |       | 45               | 7436          | 32.91 | 1.01           |                |      |                |      |
| 135          | 1998          | 10.83 | 0.98           |                  |       | 53               | 6288          | 27.83 | 1.20           |                |      |                |      |
| 158          | 1708          | 9.26  | 1.12           |                  |       | 61               | 5423          | 24.00 | 1.38           |                |      |                |      |
| 174          | 1544          | 8.37  | 1.24           |                  |       | 67               | 5005          | 22.15 | 1.51           |                |      |                |      |
| 206          | 1308          | 7.09  | 1.44           |                  |       | 77               | 4302          | 19.04 | 1.75           |                |      |                |      |
| 235          | 1144          | 6.20  | 1.55           |                  |       | 88               | 3796          | 16.80 | 1.98           |                |      |                |      |
| 282          | 955           | 5.18  | 1.75           |                  |       | 101              | 3279          | 14.51 | 2.3            |                |      |                |      |
| 325          | 828           | 4.49  | 1.85           |                  |       | 115              | 2899          | 12.83 | 2.6            |                |      |                |      |
| 432          | 649           | 3.40  | 1.71           | RX 127<br>RXF127 | 4     | 136              | 2438          | 10.79 | 2.8            |                |      | R 107<br>RF107 | 4    |
|              |               |       |                |                  |       | 169              | 1968          | 8.71  | 3.1            |                |      |                |      |
|              |               |       |                |                  |       | 194              | 1715          | 7.59  | 3.3            |                |      |                |      |
| 230          | 1442          | 6.38  | 3.7            | R 167<br>RF167   | 4     |                  |               |       |                |                |      |                |      |
| 285          | 1164          | 5.15  | 3.7            |                  |       |                  |               |       |                |                |      |                |      |
| 74           | 4478          | 19.82 | 0.90           |                  |       |                  |               |       |                |                |      |                |      |
| 82           | 4065          | 17.99 | 0.99           |                  |       |                  |               |       |                |                |      |                |      |
| 95           | 3493          | 15.46 | 1.16           |                  |       |                  |               |       |                |                |      |                |      |
| 109          | 3050          | 13.50 | 1.33           |                  |       |                  |               |       |                |                |      |                |      |
| 128          | 2587          | 11.45 | 1.50           |                  |       |                  |               |       |                |                |      |                |      |
| 147          | 2262          | 10.01 | 1.56           |                  |       |                  |               |       |                |                |      |                |      |
| 174          | 1912          | 8.46  | 1.79           |                  |       |                  |               |       |                |                |      |                |      |
| 182          | 1823          | 8.07  | 1.8            |                  |       |                  |               |       |                |                |      |                |      |
| 215          | 1546          | 6.84  | 2.1            |                  |       |                  |               |       |                |                |      |                |      |
| 246          | 1351          | 5.98  | 2.1            |                  |       |                  |               |       |                |                |      |                |      |
| 291          | 1143          | 5.06  | 2.4            |                  |       |                  |               |       |                |                |      |                |      |
| 432          | 801           | 3.40  | 1.39           |                  |       | RX 127<br>RXF127 | 4             | 490   | 707            | 3.00           | 1.57 |                |      |
|              |               |       |                | 568              | 610   |                  |               | 2.59  | 1.82           |                |      |                |      |
|              |               |       |                | 435              | 796   |                  |               | 3.38  | 0.98           |                |      |                |      |
| 479          | 723           | 3.07  | 1.08           | RX 107<br>RXF107 | 4     |                  |               |       |                |                |      |                |      |
| 557          | 622           | 2.64  | 1.25           |                  |       |                  |               |       |                |                |      |                |      |
| 639          | 542           | 2.30  | 1.44           |                  |       |                  |               |       |                |                |      |                |      |
| 754          | 459           | 1.95  | 1.57           |                  |       |                  |               |       |                |                |      |                |      |
| 860          | 403           | 1.71  | 1.65           |                  |       |                  |               |       |                |                |      |                |      |
| 1021         | 339           | 1.44  | 1.79           |                  |       |                  |               |       |                |                |      |                |      |
| 45kW         |               |       |                |                  |       | 45kW             |               |       |                |                |      |                |      |
| 23           | 17463         | 63.98 | 0.97           | R 147<br>RF147   | 4     | 25               | 15970         | 58.51 | 1.06           | R 147<br>RF147 | 4    |                |      |
| 29           | 13896         | 50.91 | 1.22           |                  |       | 29               | 13896         | 50.91 | 1.22           |                |      |                |      |
| 33           | 12264         | 44.93 | 1.38           |                  |       | 33               | 12264         | 44.93 | 1.38           |                |      |                |      |
| 38           | 10631         | 38.95 | 1.59           |                  |       | 38               | 10631         | 38.95 | 1.59           |                |      |                |      |
| 43           | 9460          | 34.66 | 1.79           |                  |       | 43               | 9460          | 34.66 | 1.79           |                |      |                |      |
| 50           | 8153          | 29.87 | 2.08           |                  |       | 50               | 8153          | 29.87 | 2.08           |                |      |                |      |
| 61           | 6624          | 24.27 | 2.4            |                  |       | 61               | 6624          | 24.27 | 2.4            |                |      |                |      |
| 72           | 5617          | 20.58 | 2.6            |                  |       | 72               | 5617          | 20.58 | 2.6            |                |      |                |      |
| 79           | 5112          | 18.73 | 3.0            |                  |       | 79               | 5112          | 18.73 | 3.0            |                |      |                |      |
| 91           | 4452          | 16.31 | 3.4            |                  |       | 91               | 4452          | 16.31 | 3.4            |                |      |                |      |
| 102          | 3974          | 14.56 | 3.5            |                  |       | 102              | 3974          | 14.56 | 3.5            |                |      |                |      |
| 28           | 14431         | 52.87 | 0.85           |                  |       | R 147<br>RF147   | 4             | 32    | 12733          |                |      | 46.65          | 0.96 |
| 37           | 10997         | 40.29 | 1.11           | 37               | 10997 |                  |               | 40.29 | 1.11           |                |      |                |      |
| 42           | 9728          | 35.64 | 1.26           | 42               | 9728  |                  |               | 35.64 | 1.26           |                |      |                |      |
| 49           | 8175          | 29.95 | 1.49           | 49               | 8175  |                  |               | 29.95 | 1.49           |                |      |                |      |
| 61           | 6603          | 24.19 | 1.69           | 61               | 6603  |                  |               | 24.19 | 1.69           |                |      |                |      |
| 72           | 5579          | 20.44 | 2.0            | 72               | 5579  |                  |               | 20.44 | 2.0            |                |      |                |      |
| 82           | 4924          | 18.04 | 2.0            | 82               | 4924  |                  |               | 18.04 | 2.0            |                |      |                |      |
| 95           | 4269          | 15.64 | 2.9            | 95               | 4269  |                  |               | 15.64 | 2.9            |                |      |                |      |
| 106          | 3797          | 13.91 | 3.2            | 106              | 3797  |                  |               | 13.91 | 3.2            |                |      |                |      |
| 123          | 3273          | 11.99 | 3.7            | 123              | 3273  |                  |               | 11.99 | 3.7            |                |      |                |      |
| 204          | 1979          | 7.25  | 4.1            | 204              | 1979  |                  |               | 7.25  | 4.1            |                |      |                |      |





| Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p | Output speed<br>r/min | Output torque<br>Nm | Ratio<br>i | Service factor<br>$f_B$ | Type<br>Type | Pole<br>p |
|-----------------------|---------------------|------------|-------------------------|--------------|-----------|-----------------------|---------------------|------------|-------------------------|--------------|-----------|
| <b>90kW</b>           |                     |            |                         |              |           |                       |                     |            |                         |              |           |
| 72                    | 11158               | 20.44      | 1.01                    |              |           |                       |                     |            |                         |              |           |
| 82                    | 9848                | 18.04      | 1.10                    |              |           |                       |                     |            |                         |              |           |
| 95                    | 8538                | 15.64      | 1.43                    |              |           |                       |                     |            |                         |              |           |
| 106                   | 7593                | 13.91      | 1.56                    | R 147        | 4         |                       |                     |            |                         |              |           |
| 123                   | 6545                | 11.99      | 1.87                    | RF147        | 4         |                       |                     |            |                         |              |           |
| 156                   | 5170                | 9.47       | 2.1                     |              |           |                       |                     |            |                         |              |           |
| 179                   | 4509                | 8.26       | 2.4                     |              |           |                       |                     |            |                         |              |           |
| 204                   | 3958                | 7.25       | 2.5                     |              |           |                       |                     |            |                         |              |           |
| 251                   | 3215                | 5.89       | 2.7                     |              |           |                       |                     |            |                         |              |           |
| 296                   | 2729                | 5.00       | 3.0                     |              |           |                       |                     |            |                         |              |           |
| 542                   | 1555                | 2.75       | 1.08                    | RX 157       | 4         |                       |                     |            |                         |              |           |
| 629                   | 1340                | 2.37       | 1.25                    | RXF157       | 4         |                       |                     |            |                         |              |           |
| 772                   | 1091                | 1.93       | 1.54                    |              |           |                       |                     |            |                         |              |           |
| 955                   | 882                 | 1.56       | 1.26                    | RX 127       | 4         |                       |                     |            |                         |              |           |
|                       |                     |            |                         | RXF127       | 4         |                       |                     |            |                         |              |           |
| <b>110kW</b>          |                     |            |                         |              |           |                       |                     |            |                         |              |           |
| 61                    | 16193               | 24.27      | 1.04                    |              |           |                       |                     |            |                         |              |           |
| 72                    | 13731               | 20.58      | 1.23                    |              |           |                       |                     |            |                         |              |           |
| 91                    | 10882               | 16.31      | 1.38                    | R 167        | 4         |                       |                     |            |                         |              |           |
| 102                   | 9715                | 14.56      | 1.45                    | RF167        | 4         |                       |                     |            |                         |              |           |
| 119                   | 8280                | 12.41      | 2.04                    |              |           |                       |                     |            |                         |              |           |
| 144                   | 6859                | 10.28      | 2.3                     |              |           |                       |                     |            |                         |              |           |
| 169                   | 5851                | 8.77       | 2.7                     |              |           |                       |                     |            |                         |              |           |
| 629                   | 1638                | 2.37       | 1.03                    | RX 157       | 4         |                       |                     |            |                         |              |           |
| 772                   | 1334                | 1.93       | 1.26                    | RXF157       | 4         |                       |                     |            |                         |              |           |
| 914                   | 1126                | 1.63       | 1.49                    |              |           |                       |                     |            |                         |              |           |
| <b>132kW</b>          |                     |            |                         |              |           |                       |                     |            |                         |              |           |
| 72                    | 16477               | 20.58      | 1.03                    |              |           |                       |                     |            |                         |              |           |
| 91                    | 13059               | 16.31      | 1.15                    |              |           |                       |                     |            |                         |              |           |
| 102                   | 11657               | 14.56      | 1.21                    | R 167        | 4         |                       |                     |            |                         |              |           |
| 119                   | 9936                | 12.41      | 1.70                    | RF167        | 4         |                       |                     |            |                         |              |           |
| 144                   | 8231                | 10.28      | 1.94                    |              |           |                       |                     |            |                         |              |           |
| 169                   | 7022                | 8.77       | 2.28                    |              |           |                       |                     |            |                         |              |           |
| 914                   | 1351                | 1.63       | 1.24                    | RX 157       | 4         |                       |                     |            |                         |              |           |
|                       |                     |            |                         | RXF157       | 4         |                       |                     |            |                         |              |           |
| <b>160kW</b>          |                     |            |                         |              |           |                       |                     |            |                         |              |           |
| 120                   | 11963               | 12.41      | 1.41                    | R 167        | 4         |                       |                     |            |                         |              |           |
| 145                   | 9910                | 10.28      | 1.61                    | RF167        | 4         |                       |                     |            |                         |              |           |
| 170                   | 8484                | 8.77       | 1.89                    |              |           |                       |                     |            |                         |              |           |

R



R

| Permissible torque | Output speed | Ratio | Type               | Power | Permissible torque | Output speed | Ratio              | Type               | Power              |                    |
|--------------------|--------------|-------|--------------------|-------|--------------------|--------------|--------------------|--------------------|--------------------|--------------------|
| Nm                 | r/min        | i     | Type               | kW/4p | Nm                 | r/min        | i                  | Type               | kW/4p              |                    |
| 130                | 8.5          | 164   | R 27R17<br>RF27R17 | 0.18  | 1550               | 0.82         | 1690               | R 87R57<br>RF87R57 | 0.18               |                    |
|                    | 8.9          | 156   |                    |       |                    | 0.91         | 1524               |                    |                    |                    |
|                    | 10           | 135   |                    |       |                    | 1.0          | 1395               |                    |                    |                    |
|                    | 12           | 118   |                    | 1.1   |                    | 1232         |                    |                    |                    |                    |
|                    | 13           | 104   |                    | 1.2   |                    | 1145         |                    |                    |                    |                    |
|                    | 15           | 90    |                    | 1.3   |                    | 1037         |                    |                    |                    |                    |
| 200                | 4.8          | 289   | R 37R17<br>RF37R17 | 0.18  |                    | 1.6          | 883                | R 87R57<br>RF87R57 | 0.37               |                    |
|                    | 5.7          | 243   |                    |       |                    | 1.7          | 802                |                    |                    |                    |
|                    | 6.2          | 226   |                    |       |                    | 1.8          | 754                |                    |                    |                    |
|                    | 7.5          | 185   |                    | 1.4   |                    | 1008         | 0.55               |                    |                    |                    |
|                    | 8.5          | 164   |                    | 2.0   |                    | 683          |                    |                    |                    |                    |
|                    | 8.9          | 156   |                    | 2.3   |                    | 599          |                    |                    |                    |                    |
|                    | 10           | 135   |                    | 2.6   |                    | 538          |                    |                    |                    |                    |
|                    | 11           | 127   |                    | 2.9   |                    | 472          |                    |                    |                    |                    |
| 13                 | 104          | 0.37  | 3.4                | 400   |                    | 0.75         |                    |                    |                    |                    |
| 15                 | 90           |       | 3.5                | 396   |                    |              |                    |                    |                    |                    |
| 3.2                | 429          |       | 3.9                | 361   |                    |              |                    |                    |                    |                    |
| 300                | 3.7          | 372   | R 47R37<br>RF47R37 | 0.18  |                    |              | 4.0                | 351                | R 87R57<br>RF87R57 | 1.1                |
|                    | 4.0          | 348   |                    |       |                    |              | 4.6                | 305                |                    |                    |
|                    | 4.6          | 301   |                    |       |                    | 4.7          | 300                |                    |                    |                    |
|                    | 5.5          | 255   |                    | 5.2   | 267                |              |                    |                    |                    |                    |
|                    | 6.1          | 228   |                    | 5.5   | 256                |              |                    |                    |                    |                    |
|                    | 450          | 2.1   |                    | 678   | R 57R37<br>RF57R37 | 0.18         | 0.32               | 4309               |                    | R 97R57<br>RF97R57 |
| 2.4                |              | 589   | 0.35               | 4004  |                    |              |                    |                    |                    |                    |
| 2.6                |              | 537   | 0.38               | 3702  |                    |              |                    |                    |                    |                    |
| 3.0                |              | 471   | 0.40               | 3481  |                    | 0.25         |                    |                    |                    |                    |
| 3.9                |              | 357   | 0.46               | 3019  |                    |              |                    |                    |                    |                    |
| 4.4                |              | 319   | 0.52               | 2668  |                    |              |                    |                    |                    |                    |
| 5.2                |              | 267   | 0.62               | 2245  |                    |              |                    |                    |                    |                    |
| 5.8                |              | 241   | 0.69               | 2016  |                    |              |                    |                    |                    |                    |
| 600                | 1.7          | 836   | R 67R37<br>RF67R37 | 0.18  | 0.76               | 1823         | R 97R57<br>RF97R57 | 0.37               |                    |                    |
|                    | 1.9          | 750   |                    |       | 0.80               | 1733         |                    |                    |                    |                    |
|                    | 2.0          | 730   |                    |       | 0.86               | 1623         |                    |                    |                    |                    |
|                    | 2.2          | 630   |                    | 0.88  | 1583               | 0.55         |                    |                    |                    |                    |
|                    | 2.4          | 571   |                    | 0.97  | 1434               |              |                    |                    |                    |                    |
|                    | 2.5          | 561   |                    | 1.00  | 1396               |              |                    |                    |                    |                    |
|                    | 2.8          | 495   |                    | 1.1   | 1228               |              |                    |                    |                    |                    |
|                    | 2.9          | 486   |                    | 1.2   | 1207               |              |                    |                    |                    |                    |
|                    | 3.2          | 438   |                    | 1.3   | 1084               | 0.75         |                    |                    |                    |                    |
|                    | 3.6          | 388   |                    | 1.3   | 1068               |              |                    |                    |                    |                    |
| 4.1                | 336          | 1.5   | 937                |       |                    |              |                    |                    |                    |                    |
| 4.8                | 287          | 1.5   | 934                |       |                    |              |                    |                    |                    |                    |
| 820                | 1.2          | 1124  | R 77R37<br>RF77R37 | 0.18  | 1.6                |              | 878                | R 97R57<br>RF97R57 | 0.25               |                    |
|                    | 1.3          | 1047  |                    |       | 1.7                | 824          |                    |                    |                    |                    |
|                    | 1.5          | 915   |                    |       | 1.8                | 755          |                    |                    |                    |                    |
|                    | 1.6          | 858   |                    | 1.9   | 737                | 1.1          |                    |                    |                    |                    |
|                    | 1.8          | 757   |                    | 2.1   | 631                |              |                    |                    |                    |                    |
|                    | 2.1          | 671   |                    | 2.2   | 625                |              |                    |                    |                    |                    |
|                    | 2.4          | 571   |                    | 2.5   | 549                |              |                    |                    |                    |                    |
|                    | 2.5          | 547   |                    | 2.6   | 560                |              |                    |                    |                    |                    |
|                    | 2.9          | 477   |                    | 0.37  | 2.9                | 484          | 1.5                |                    |                    |                    |
|                    | 3.3          | 426   |                    |       | 3.2                | 430          |                    |                    |                    |                    |
|                    | 3.8          | 364   |                    |       | 3.7                | 379          |                    |                    |                    |                    |
|                    | 4.5          | 312   |                    | 0.55  | 4.1                | 336          |                    |                    |                    |                    |
|                    | 4.5          | 310   |                    |       | 4.7                | 296          |                    |                    |                    |                    |
|                    | 5.6          | 248   |                    |       | 5.1                | 270          |                    |                    |                    |                    |
| 1550               | 0.65         | 2129  | R 87R57<br>RF87R57 | 0.18  | 5.6                | 249          | R 97R57<br>RF97R57 | 2.2                |                    |                    |
|                    | 0.71         | 1955  |                    |       | 5.9                | 234          |                    |                    |                    |                    |
|                    | 0.72         | 1930  |                    |       | 6.1                | 227          |                    |                    |                    |                    |
|                    | 0.79         | 1737  |                    |       |                    |              |                    |                    |                    |                    |
|                    | 0.80         | 1733  |                    |       |                    |              |                    |                    |                    |                    |



| Permissible torque | Output speed | Ratio | Type                 | Power | Permissible torque | Output speed | Ratio | Type                 | Power |
|--------------------|--------------|-------|----------------------|-------|--------------------|--------------|-------|----------------------|-------|
| Nm                 | r/min        | i     | Type                 | kW/4p | Nm                 | r/min        | i     | Type                 | kW/4p |
| 4300               | 0.21         | 6690  | R 107R77<br>RF107R77 | 0.18  | 8000               | 0.34         | 4018  | R 137R77<br>RF137R77 | 0.37  |
|                    | 0.24         | 5735  |                      |       |                    | 0.35         | 3928  |                      |       |
|                    | 0.27         | 5127  |                      |       |                    | 0.40         | 3514  |                      |       |
|                    | 0.32         | 4302  |                      |       |                    | 0.41         | 3377  |                      |       |
|                    | 0.36         | 3870  |                      |       |                    | 0.42         | 3338  |                      |       |
|                    | 0.36         | 3847  |                      | 0.25  |                    | 0.47         | 2929  |                      | 0.55  |
|                    | 0.42         | 3302  |                      |       |                    | 0.48         | 2926  |                      |       |
|                    | 0.46         | 3015  |                      |       |                    | 0.52         | 2658  |                      |       |
|                    | 0.46         | 2997  |                      |       |                    | 0.56         | 2484  |                      |       |
|                    | 0.53         | 2621  |                      |       |                    | 0.58         | 2412  |                      |       |
|                    | 0.62         | 2252  |                      | 0.37  |                    | 0.62         | 2242  |                      | 0.75  |
|                    | 0.68         | 2041  |                      |       |                    | 0.67         | 2073  |                      |       |
|                    | 0.71         | 1971  |                      |       |                    | 0.75         | 1863  |                      |       |
|                    | 0.77         | 1813  |                      |       |                    | 0.76         | 1839  |                      |       |
|                    | 0.83         | 1673  |                      |       |                    | 0.88         | 1598  |                      |       |
|                    | 0.88         | 1587  |                      | 0.55  |                    | 1.0          | 1397  |                      | 1.1   |
|                    | 0.91         | 1531  |                      |       |                    | 1.1          | 1226  |                      |       |
|                    | 1.00         | 1390  |                      |       |                    | 1.3          | 1090  |                      |       |
|                    | 1.00         | 1389  |                      |       |                    | 1.3          | 1080  |                      |       |
|                    | 1.14         | 1216  |                      |       |                    | 1.4          | 1020  |                      |       |
|                    | 1.2          | 1194  |                      | 0.75  |                    | 1.5          | 951   |                      | 1.5   |
|                    | 1.27         | 1095  |                      |       |                    | 1.6          | 869   |                      |       |
|                    | 1.3          | 1043  |                      |       |                    | 1.7          | 831   |                      |       |
|                    | 1.50         | 927   |                      |       |                    | 2.0          | 730   |                      |       |
|                    | 1.6          | 888   |                      |       |                    | 2.1          | 684   |                      |       |
|                    | 1.7          | 787   |                      | 1.1   |                    | 2.3          | 629   |                      | 2.2   |
|                    | 2.0          | 692   |                      |       |                    | 2.3          | 609   |                      |       |
|                    | 2.3          | 605   |                      |       |                    | 2.6          | 564   |                      |       |
|                    | 2.4          | 598   |                      |       |                    | 2.6          | 549   |                      |       |
|                    | 2.6          | 530   |                      |       |                    | 2.8          | 517   |                      |       |
|                    | 2.7          | 510   |                      | 1.5   |                    | 2.9          | 490   |                      | 3     |
|                    | 2.9          | 479   |                      |       |                    | 3.2          | 453   |                      |       |
|                    | 3.1          | 463   |                      |       |                    | 3.4          | 428   |                      |       |
|                    | 3.4          | 420   |                      |       |                    | 3.8          | 376   |                      |       |
|                    | 3.5          | 406   |                      |       |                    | 3.8          | 374   |                      |       |
|                    | 3.8          | 373   |                      | 2.2   |                    | 4.2          | 339   |                      | 4     |
|                    | 4.0          | 357   |                      |       |                    | 4.5          | 317   |                      |       |
|                    | 4.5          | 321   |                      |       |                    | 4.8          | 297   |                      |       |
|                    | 4.6          | 313   |                      |       |                    | 5.0          | 286   |                      |       |
|                    | 5.1          | 281   |                      |       |                    | 5.8          | 250   |                      |       |
| 5.2                | 277          | 3     | 13000                | 0.08  | 18210              | 0.18         |       |                      |       |
| 5.7                | 253          |       |                      | 0.09  | 15923              |              |       |                      |       |
| 5.8                | 245          |       |                      | 0.10  | 14075              |              |       |                      |       |
| 6.6                | 217          |       |                      | 0.12  | 12344              |              |       |                      |       |
| 6.9                | 208          |       |                      | 0.13  | 11143              |              |       |                      |       |
| 7.5                | 191          | 4     |                      | 0.15  | 9743               | 0.25         |       |                      |       |
| 7.9                | 181          |       |                      | 0.17  | 8443               |              |       |                      |       |
| 8.6                | 167          |       |                      | 0.20  | 7307               |              |       |                      |       |
| 8000               | 0.12         |       |                      | 11712 | 0.22               |              | 6447  | R 147R77<br>RF147R77 | 0.37  |
|                    | 0.13         |       |                      | 10573 | 0.26               |              | 5568  |                      |       |
|                    | 0.16         | 8784  |                      | 0.30  | 4815               |              |       |                      |       |
|                    | 0.19         | 7479  |                      | 0.33  | 4325               |              |       |                      |       |
|                    | 0.22         | 6412  |                      | 0.25  | 0.39               | 3669         | 0.55  |                      |       |
|                    | 0.24         | 5834  |                      |       | 0.44               | 3228         |       |                      |       |
|                    | 0.28         | 5001  |                      |       | 0.50               | 2833         |       |                      |       |
|                    | 0.30         | 4709  |                      |       | 0.37               |              |       |                      |       |
| 0.32               | 4364         |       |                      |       |                    |              |       |                      |       |

All gear units are overloaded in above table. Determination of operating torque should not higher than the gear unit's nominal torque.



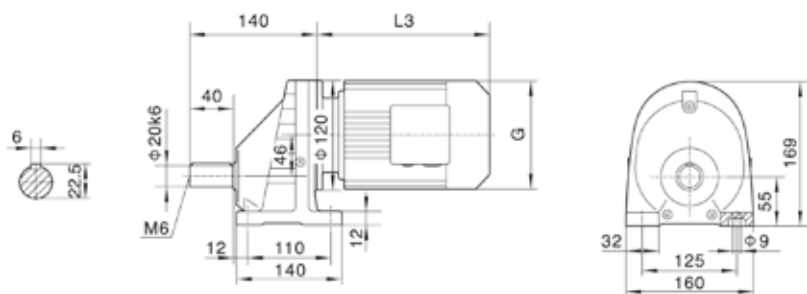
R

| Permissible torque<br>Nm | Output speed<br>r/min | Ratio<br>i | Type<br>Type         | Power<br>kW/4p | Permissible torque<br>Nm | Output speed<br>r/min | Ratio<br>i | Type<br>Type           | Power<br>kW/4p |
|--------------------------|-----------------------|------------|----------------------|----------------|--------------------------|-----------------------|------------|------------------------|----------------|
| 13000                    | 0.56                  | 2555       | R 147R77<br>RF147R77 | 1.1            |                          | 4.9                   | 295        | R 167R107<br>RF167R107 | 11             |
|                          | 0.65                  | 2211       |                      |                |                          | 5.1                   | 287        |                        |                |
|                          | 0.73                  | 1951       |                      |                |                          | 5.2                   | 281        |                        |                |
|                          | 0.84                  | 1705       |                      | 1.5            |                          | 5.6                   | 260        |                        |                |
|                          | 0.93                  | 1536       |                      |                |                          | 6.1                   | 238        |                        | 15             |
|                          | 1.1                   | 1329       |                      | 2.2            |                          | 6.5                   | 224        |                        |                |
|                          | 1.2                   | 1166       | R 147R87<br>RF147R87 |                |                          | 7.0                   | 208        |                        |                |
|                          | 1.4                   | 1029       |                      |                |                          | 7.5                   | 195        |                        |                |
|                          | 1.6                   | 889        |                      | 3              |                          |                       |            |                        |                |
|                          | 1.8                   | 784        |                      |                |                          |                       |            |                        |                |
|                          | 2.1                   | 695        |                      | 4              |                          |                       |            |                        |                |
|                          | 2.4                   | 607        |                      |                |                          |                       |            |                        |                |
|                          | 2.6                   | 547        |                      | 5.5            |                          |                       |            |                        |                |
|                          | 3.0                   | 480        |                      | 4              |                          |                       |            |                        |                |
|                          | 2.7                   | 540        | R 167R97<br>RF167R97 |                |                          |                       |            |                        |                |
|                          | 3.1                   | 462        |                      | 5.5            |                          |                       |            |                        |                |
|                          | 3.3                   | 432        |                      | 7.5            |                          |                       |            |                        |                |
|                          | 3.9                   | 373        |                      |                |                          |                       |            |                        |                |
|                          | 4.4                   | 330        |                      | 11             |                          |                       |            |                        |                |
| 18000                    | 0.05                  | 27001      |                      | 0.55           |                          |                       |            |                        |                |
|                          | 0.06                  | 22482      |                      |                |                          |                       |            |                        |                |
|                          | 0.07                  | 20002      |                      |                |                          |                       |            |                        |                |
|                          | 0.08                  | 17361      |                      |                |                          |                       |            |                        |                |
|                          | 0.09                  | 15446      |                      |                |                          |                       |            |                        |                |
|                          | 0.10                  | 14051      |                      |                |                          |                       |            |                        |                |
|                          | 0.12                  | 11812      |                      |                |                          |                       |            |                        |                |
|                          | 0.13                  | 10519      |                      |                |                          |                       |            |                        |                |
|                          | 0.14                  | 9754       |                      | 0.75           |                          |                       |            |                        |                |
|                          | 0.23                  | 6069       |                      |                |                          |                       |            |                        |                |
|                          | 0.26                  | 5399       |                      |                |                          |                       |            |                        |                |
|                          | 0.30                  | 4709       |                      |                |                          |                       |            |                        |                |
|                          | 0.33                  | 4182       |                      |                |                          |                       |            |                        |                |
|                          | 0.18                  | 7749       |                      | 1.1            |                          |                       |            |                        |                |
|                          | 0.20                  | 6894       |                      |                |                          |                       |            |                        |                |
|                          | 0.37                  | 3739       |                      |                |                          |                       |            |                        |                |
|                          | 0.54                  | 2657       |                      | 1.5            |                          |                       |            |                        |                |
|                          | 0.61                  | 2333       |                      |                |                          |                       |            |                        |                |
|                          | 0.69                  | 2085       |                      |                |                          |                       |            |                        |                |
|                          | 0.76                  | 1877       |                      | 2.2            |                          |                       |            |                        |                |
|                          | 0.86                  | 1670       |                      |                |                          |                       |            |                        |                |
|                          | 0.98                  | 1456       |                      |                |                          |                       |            |                        |                |
|                          | 1.1                   | 1296       |                      | 3              |                          |                       |            |                        |                |
|                          | 1.3                   | 1137       |                      |                |                          |                       |            |                        |                |
|                          | 1.4                   | 1012       |                      |                |                          |                       |            |                        |                |
|                          | 1.7                   | 872        |                      | 4              |                          |                       |            |                        |                |
|                          | 1.9                   | 770        |                      |                |                          |                       |            |                        |                |
|                          | 2.2                   | 664        |                      | 5.5            |                          |                       |            |                        |                |
|                          | 2.5                   | 578        |                      |                |                          |                       |            |                        |                |
|                          | 2.8                   | 510        |                      |                |                          |                       |            |                        |                |
|                          | 3.3                   | 438        |                      | 7.5            |                          |                       |            |                        |                |
|                          | 3.8                   | 380        |                      |                |                          |                       |            |                        |                |
|                          | 4.3                   | 338        |                      |                |                          |                       |            |                        |                |
|                          | 4.8                   | 307        |                      | 11             |                          |                       |            |                        |                |
|                          | 5.2                   | 282        |                      |                |                          |                       |            |                        |                |

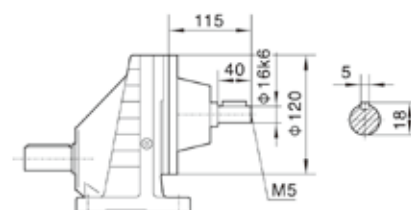
All gear units are overloaded in above table. Determination of operating torque should not higher than the gear unit's nominal torque.



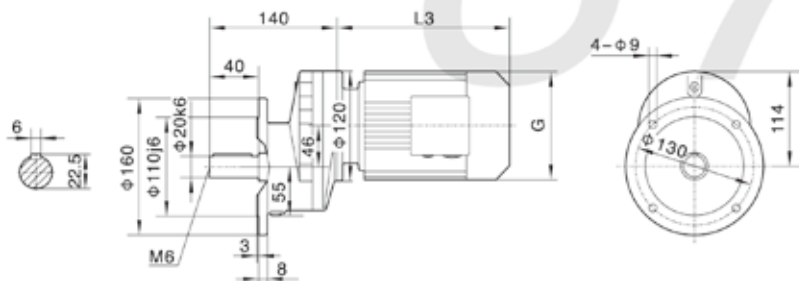
### RX37



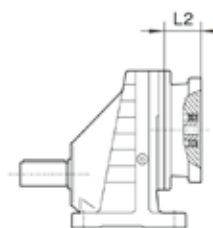
### RX..S37



### RXF37



Customers provide the motor by themselves  
need connected flange.



Note: For other values please  
refer to relevant structure.

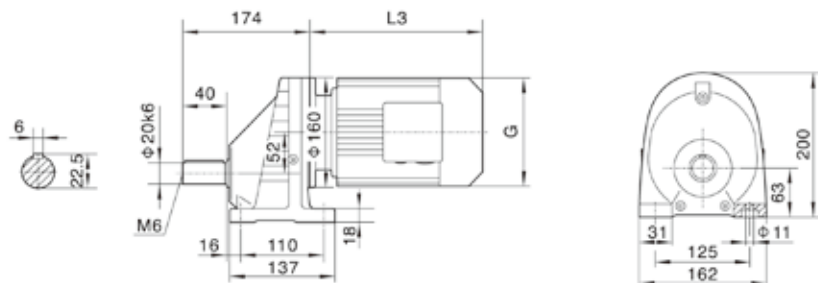
|            |      |           |           |     |  |
|------------|------|-----------|-----------|-----|--|
| Motor size | 63   | 71        | 80        | 90S |  |
| Power/(kW) | 0.18 | 0.25 0.37 | 0.55 0.75 | 1.1 |  |
| L3         | 223  | 236       | 264       | 301 |  |
| G          | 130  | 145       | 175       | 195 |  |
| L2         | 71   | 71        | 71        | 71  |  |

Note: "RX.." means RX, RXF.

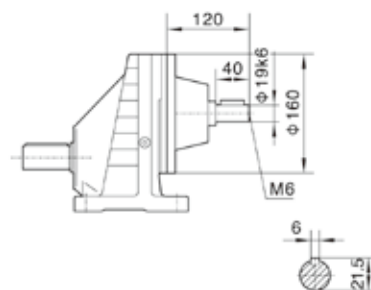
R



**RX57**

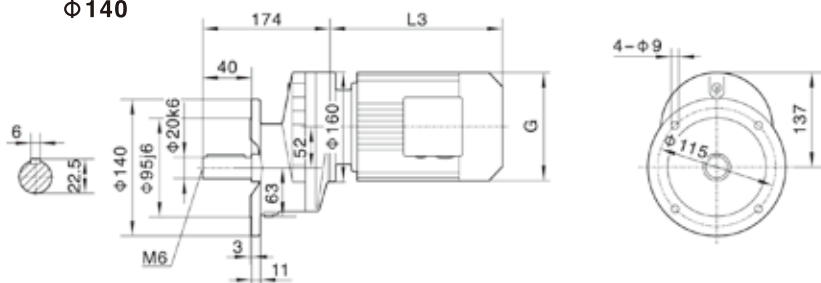


**RX..S57**

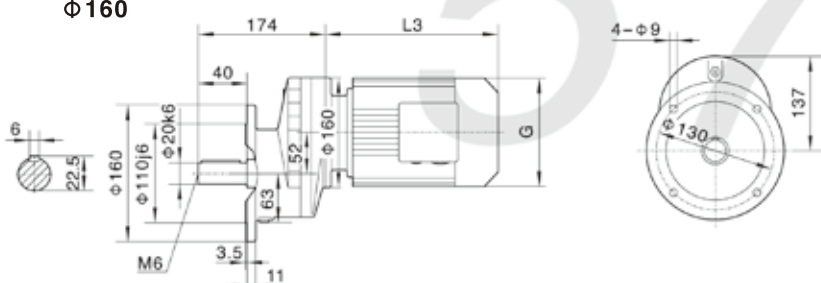


**RXF57**

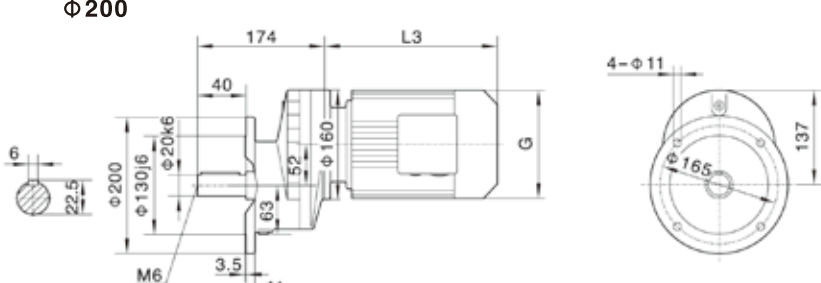
**Φ 140**



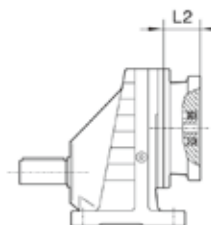
**Φ 160**



**Φ 200**



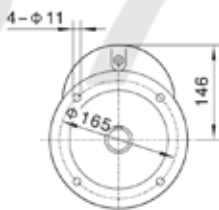
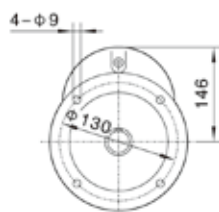
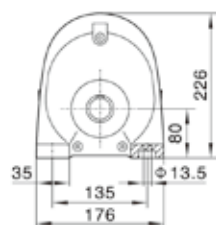
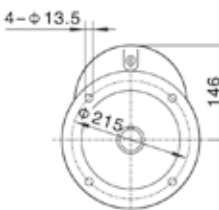
Customers provide the motor by themselves  
need connected flange.



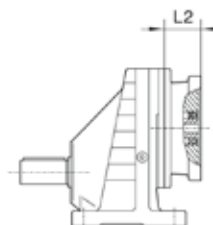
Note: For other values please  
refer to relevant structure.

|            |      |      |      |      |      |     |      |      |     |
|------------|------|------|------|------|------|-----|------|------|-----|
| Motor size | 63   | 71   | 80   | 90S  | 90L  | 100 | 112M | 132S |     |
| Power/(kW) | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5  | 2.2  | 3.0 |
| L3         | 223  | 245  | 278  | 304  | 328  | 350 | 380  | 425  |     |
| G          | 130  | 145  | 175  | 195  | 195  | 215 | 240  | 275  |     |
| L2         | 81   | 81   | 81   | 81   | 81   | 93  | 93   | 101  |     |

Note: "RX.." means RX, RXF.

[illegible][illegible]

Customers provide the motor by themselves  
need connected flange.



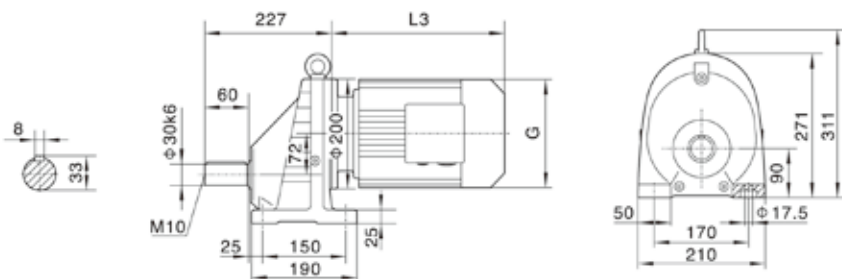
Note: For other values please refer to relevant structure.

Note: "RX.." means RX, RXF.

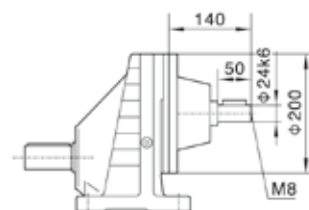




## RX77

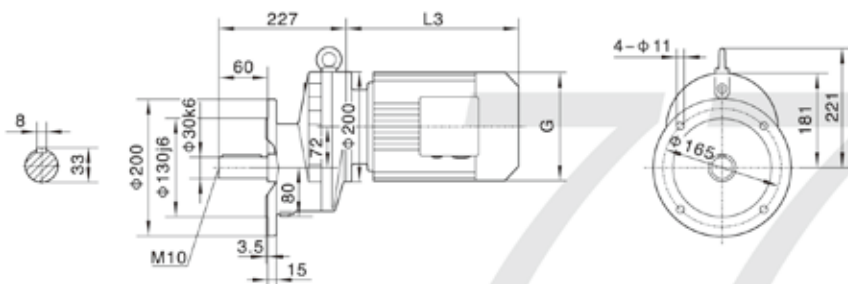


## RX..S77



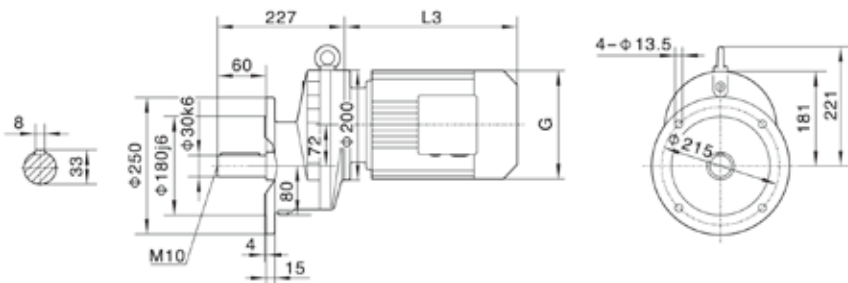
## RXF77

Φ 200



Customers provide the motor by themselves  
need connected flange.

Φ 250



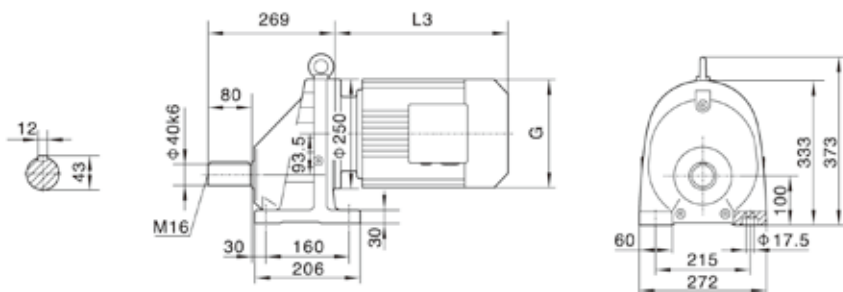
Note: For other values please  
refer to relevant structure.

|            |     |     |           |      |      |      |      |  |
|------------|-----|-----|-----------|------|------|------|------|--|
| Motor size | 90S | 90L | 100       | 112M | 132S | 132M | 160M |  |
| Power/(kW) | 1.1 | 1.5 | 2.2   3.0 | 4.0  | 5.5  | 7.5  | 11   |  |
| L3         | 304 | 328 | 350       | 380  | 425  | 461  | 524  |  |
| G          | 195 | 195 | 215       | 240  | 275  | 275  | 330  |  |
| L2         | 81  | 81  | 93        | 93   | 101  | 101  | 126  |  |

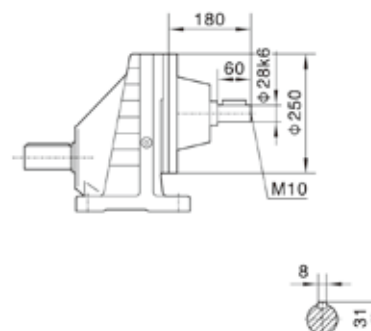
Note: "RX.." means RX, RXF.



### RX87

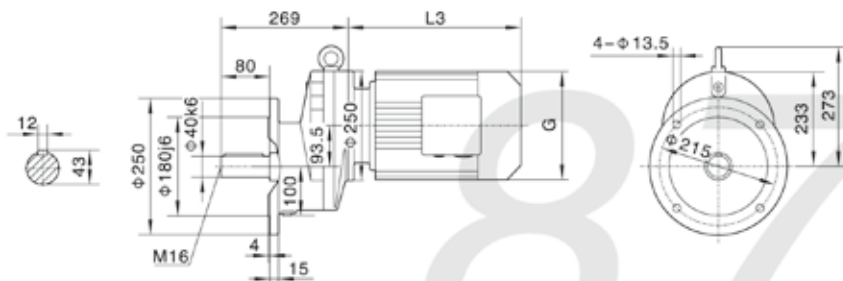


### RX..S87

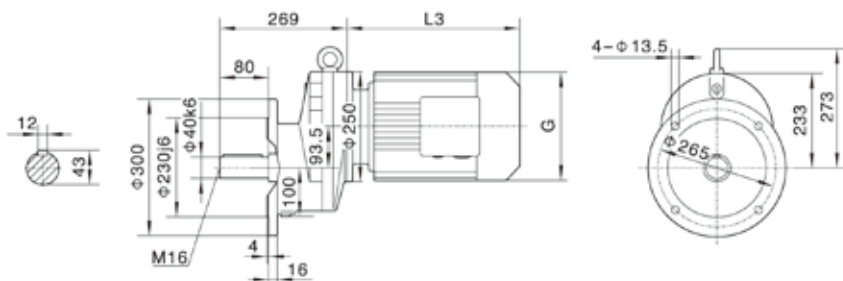


### RXF87

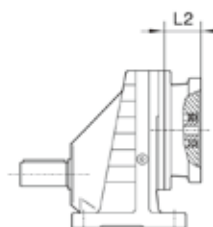
Φ250



Φ300



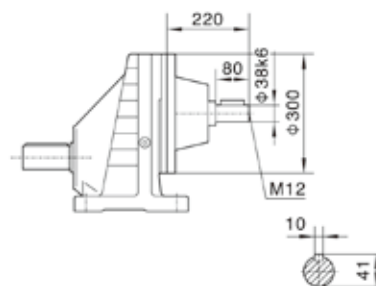
Customers provide the motor by themselves need connected flange.



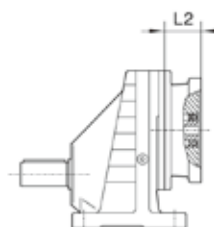
Note: For other values please refer to relevant structure.

|            |     |      |      |      |      |      |      |      |  |
|------------|-----|------|------|------|------|------|------|------|--|
| Motor size | 100 | 112M | 132S | 132M | 160M | 160L | 180M | 180L |  |
| Power/(kW) | 3.0 | 4.0  | 5.5  | 7.5  | 11   | 15   | 18.5 | 22   |  |
| L3         | 351 | 380  | 425  | 461  | 524  | 547  | 583  | 616  |  |
| G          | 215 | 240  | 275  | 275  | 330  | 330  | 380  | 380  |  |
| L2         | 71  | 71   | 101  | 101  | 126  | 126  | 126  | 126  |  |

Note: "RX.." means RX, RXF.

**RX..S97**

Customers provide the motor by themselves  
need connected flange.



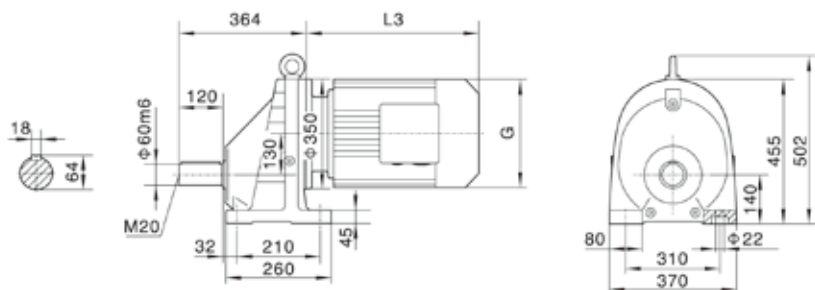
Note: For other values please refer to relevant structure.

|            |      |      |      |      |      |      |     |  |
|------------|------|------|------|------|------|------|-----|--|
| Motor size | 132S | 132M | 160M | 160L | 180M | 180L | 200 |  |
| Power/(kW) | 5.5  | 7.5  | 11   | 15   | 18.5 | 22   | 30  |  |
| L3         | 425  | 461  | 524  | 547  | 555  | 588  | 654 |  |
| G          | 275  | 275  | 330  | 330  | 380  | 380  | 420 |  |
| L2         | 101  | 101  | 126  | 126  | 126  | 126  | 126 |  |

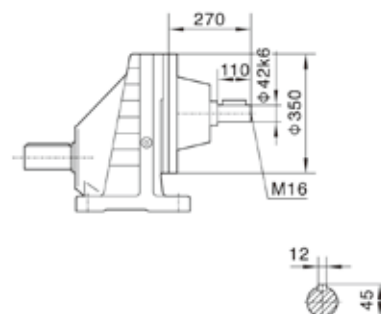
Note: "RX.." means RX, RXF.



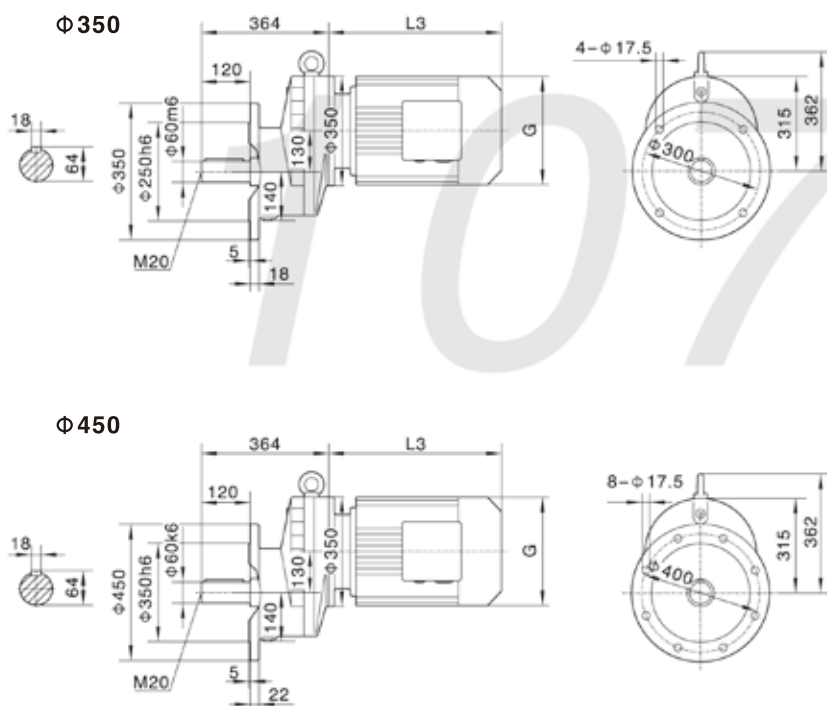
### RX107



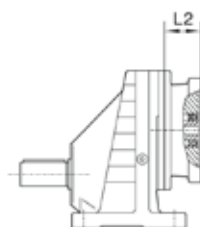
### RX..S107



### RXF107



Customers provide the motor by themselves  
need connected flange.



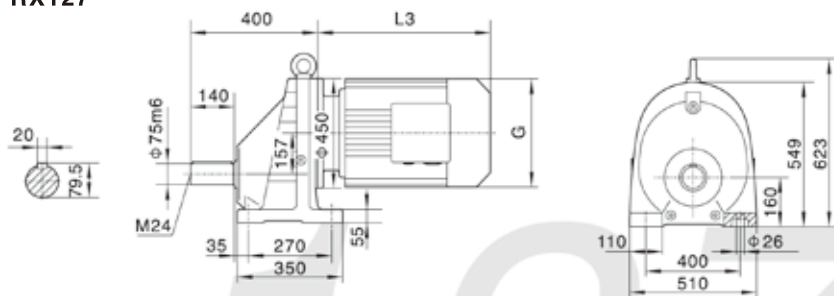
Note: For other values please  
refer to relevant structure.

|            |      |      |      |      |      |     |      |      |  |
|------------|------|------|------|------|------|-----|------|------|--|
| Motor size | 132M | 160M | 160L | 180M | 180L | 200 | 225S | 225M |  |
| Power/(kW) | 7.5  | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   |  |
| L3         | 422  | 504  | 519  | 555  | 588  | 654 | 680  | 702  |  |
| G          | 275  | 330  | 330  | 380  | 380  | 420 | 470  | 470  |  |
| L2         | 101  | 126  | 126  | 126  | 126  | 132 | 132  | 132  |  |

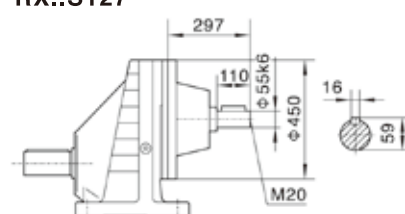
Note: "RX.." means RX, RXF.



### RX127

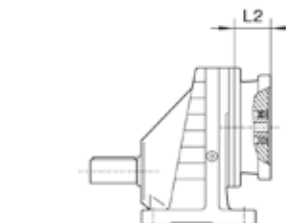
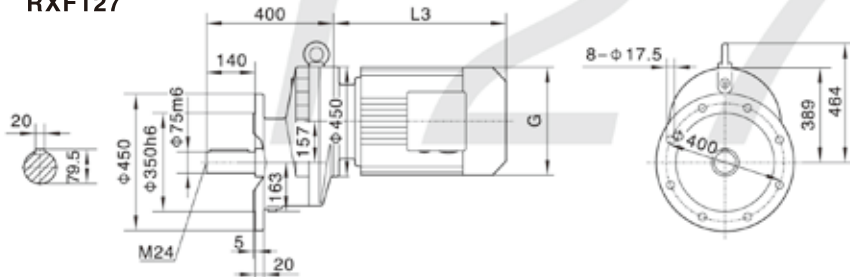


### RX..S127



Customers provide the motor by themselves  
need connected flange.

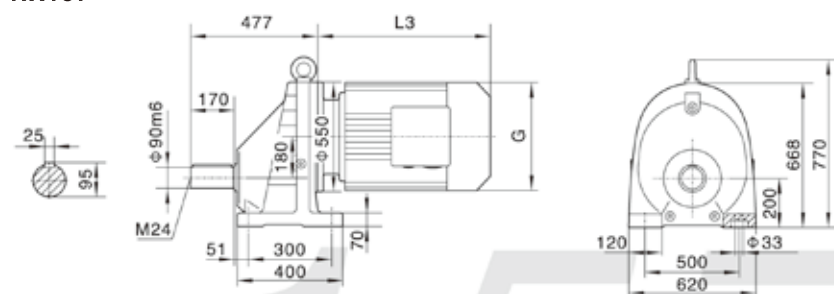
### RXF127



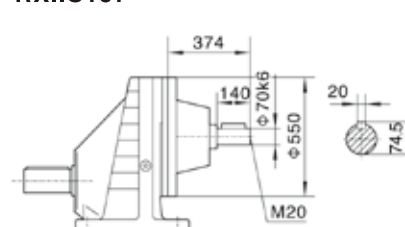
Note: For other values please  
refer to relevant structure.

| Motor size | 132M | 160M | 160L | 180M | 180L | 200 | 225S | 225M | 250 | 280S | 280M |
|------------|------|------|------|------|------|-----|------|------|-----|------|------|
| Power/(kW) | 7.5  | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   | 55  | 75   | 90   |
| L3         | 424  | 567  | 602  | 583  | 616  | 654 | 674  | 696  | 775 | 845  | 845  |
| G          | 275  | 330  | 330  | 380  | 380  | 420 | 470  | 470  | 510 | 580  | 580  |
| L2         | 132  | 132  | 132  | 132  | 132  | 132 | 143  | 143  | 120 | 120  | 120  |

### RX157

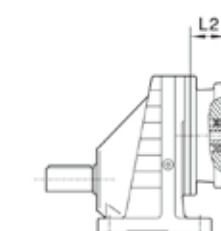
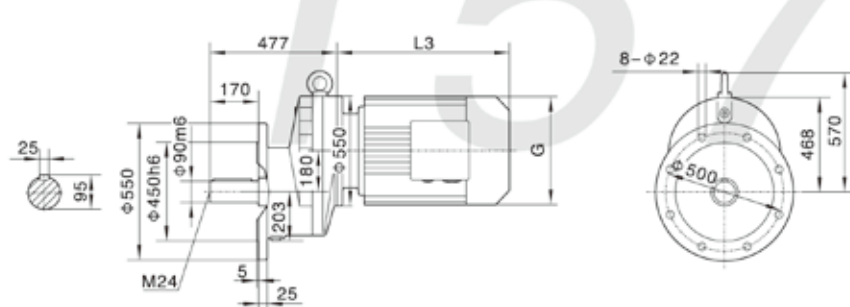


### RX..S157



Customers provide the motor by themselves  
need connected flange.

### RXF157



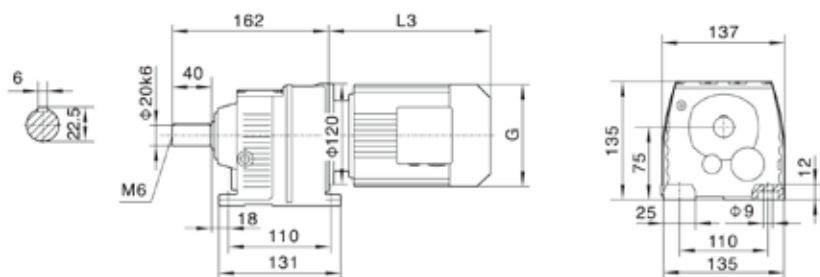
Note: For other values please  
refer to relevant structure.

| Motor size | 160M | 160L | 180M | 180L | 200 | 225S | 225M | 250 | 280S | 280M | 315S | 315M |
|------------|------|------|------|------|-----|------|------|-----|------|------|------|------|
| Power/(kW) | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   | 55  | 75   | 90   | 110  | 132  |
| L3         | 567  | 602  | 635  | 666  | 642 | 669  | 691  | 770 | 828  | 879  | 1100 | 1130 |
| G          | 330  | 330  | 380  | 380  | 420 | 470  | 470  | 510 | 580  | 580  | 645  | 645  |
| L2         | 143  | 143  | 143  | 143  | 143 | 143  | 143  | 143 | 143  | 143  | 145  | 145  |

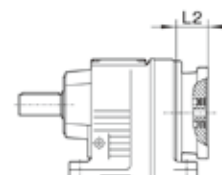
Note: "RX.." means RX, RFX.



## R17



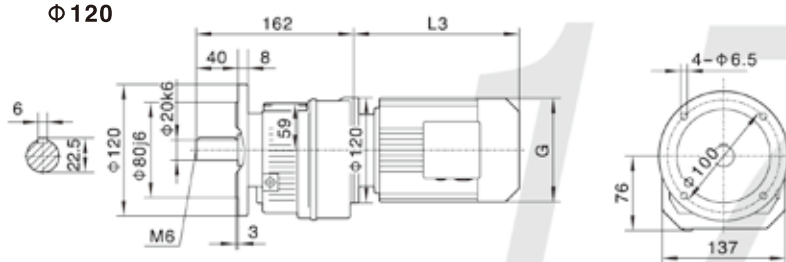
Customers provide the motor by themselves  
need connected flange.



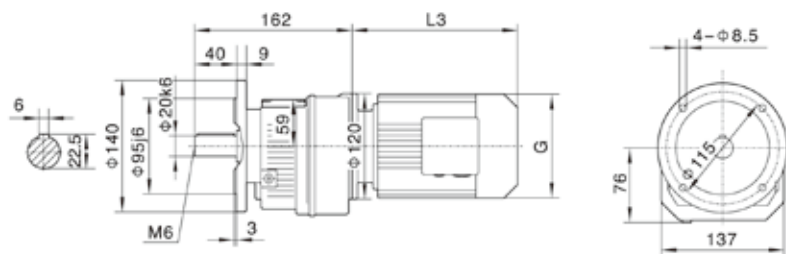
## RF17

Note: For other values please  
refer to relevant structure.

### Φ 120



### Φ 140

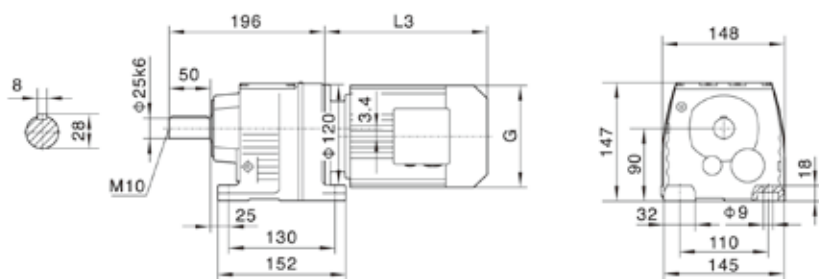


|            |      |      |      |      |      |  |  |  |  |  |  |
|------------|------|------|------|------|------|--|--|--|--|--|--|
| Motor size | 63   | 71   |      | 80   |      |  |  |  |  |  |  |
| Power/(kW) | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 |  |  |  |  |  |  |
| L3         | 235  | 245  |      | 278  |      |  |  |  |  |  |  |
| G          | 130  | 145  |      | 175  |      |  |  |  |  |  |  |
| L2         | 71   | 71   |      | 71   |      |  |  |  |  |  |  |

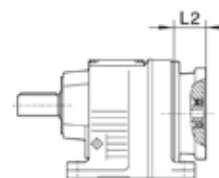
Note: "R.." means R, RF.



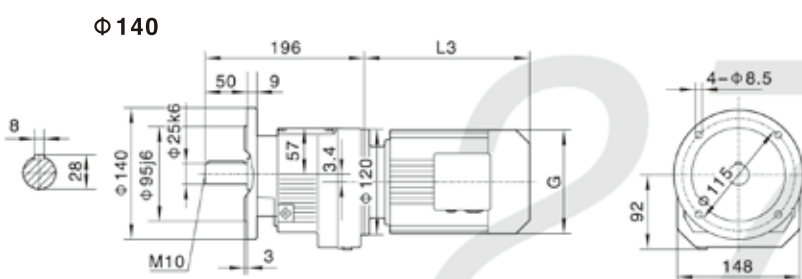
## R27



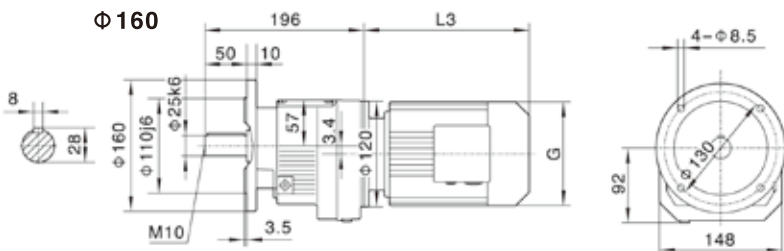
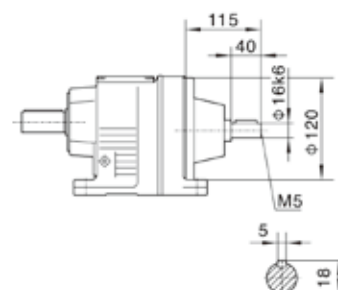
Customers provide the motor by themselves  
need connected flange.



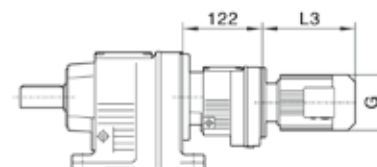
## RF27



## R..S27



## R..27R17



Note: For other values please  
refer to relevant structure.

|            |      |      |      |      |      |     |     |     |     |  |
|------------|------|------|------|------|------|-----|-----|-----|-----|--|
| Motor size | 63   | 71   |      | 80   |      | 90S | 90L | 100 |     |  |
| Power/(kW) | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 |  |
| L3         | 235  | 245  |      | 278  |      | 304 | 328 | 340 |     |  |
| G          | 130  | 145  |      | 175  |      | 195 | 195 | 215 |     |  |
| L2         | 71   | 71   |      | 71   |      | 71  | 71  | 93  |     |  |

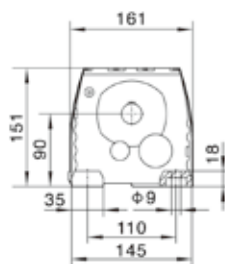
Note: "R.." means R, RF.



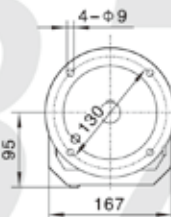
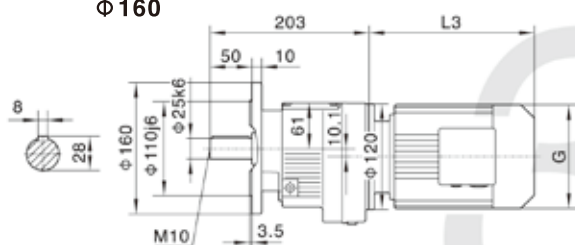


Technical drawing of the 1000W motor assembly. The drawing includes a side view and a cross-sectional view. Key dimensions and part numbers are labeled:

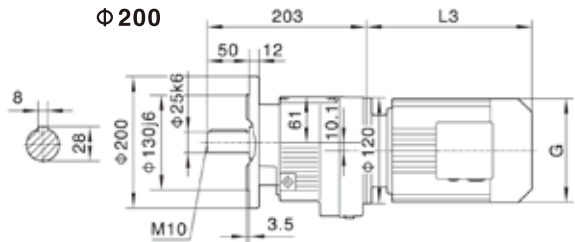
- Overall length: 203
- Motor length: L3
- Shaft diameter:  $\phi 25k6$
- Shaft length: 50
- Motor body diameter:  $\phi 120$
- Motor body length: 130
- Motor body width: 160
- Motor body height: 25
- Motor body internal diameter:  $\phi 10.1$
- Motor body mounting hole diameter:  $\phi 8$
- Motor body mounting hole offset: 20
- Motor body mounting hole distance: 130
- Motor body mounting hole diameter:  $\phi 10.1$
- Motor body mounting hole offset: 20
- Motor body mounting hole distance: 130
- Motor body mounting hole diameter:  $\phi 10.1$
- Motor body mounting hole offset: 20
- Motor body mounting hole distance: 130



**Φ 160**



**Φ 200**



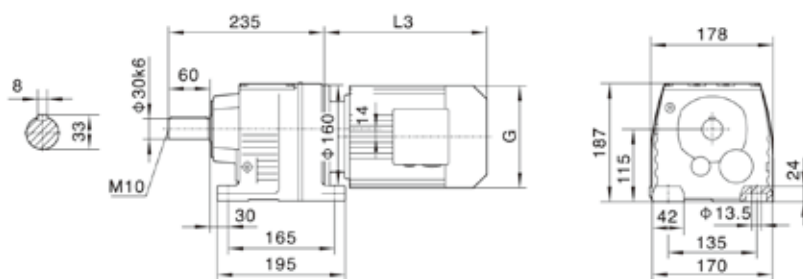
Technical drawing of the motor assembly showing dimensions: 115, 40, 16x6, 120, M5, 5, and 8.

|            |      |      |      |      |      |     |     |      |     |  |
|------------|------|------|------|------|------|-----|-----|------|-----|--|
| Motor size | 63   | 71   |      | 80   |      | 90S | 90L | 100L |     |  |
| Power/(kW) | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2  | 3.0 |  |
| L3         | 235  | 245  |      | 278  |      | 304 | 328 | 340  |     |  |
| G          | 130  | 145  |      | 175  |      | 195 | 195 | 215  |     |  |
| L2         | 71   | 71   |      | 71   |      | 71  | 71  | 93   |     |  |

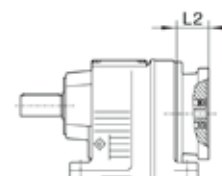
46



## R47

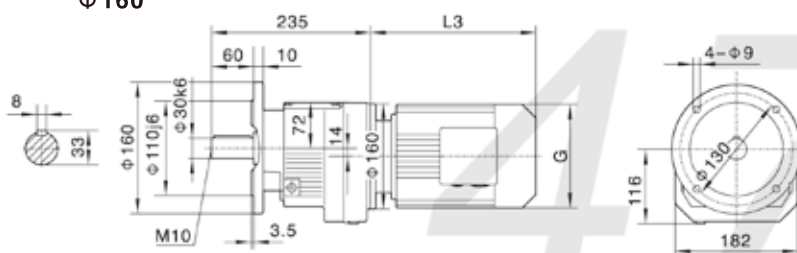


Customers provide the motor by themselves  
need connected flange.

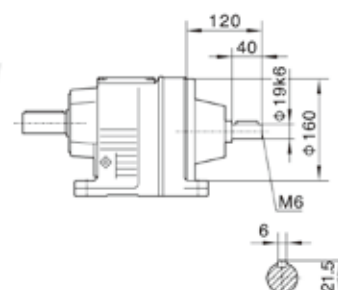


## RF47

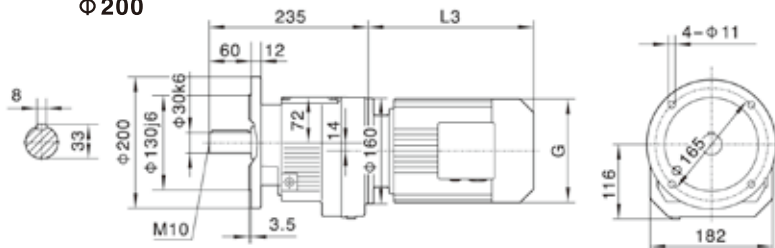
Φ 160



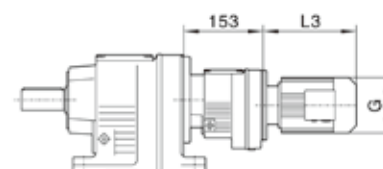
## R..S47



Φ 200



## R..47R37



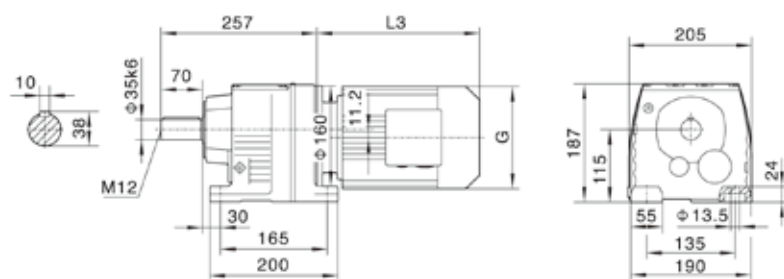
Note: For other values please  
refer to relevant structure.

|            |      |             |             |     |     |           |      |      |  |
|------------|------|-------------|-------------|-----|-----|-----------|------|------|--|
| Motor size | 63   | 71          | 80          | 90S | 90L | 100       | 112M | 132S |  |
| Power/(kW) | 0.18 | 0.25   0.37 | 0.55   0.75 | 1.1 | 1.5 | 2.2   3.0 | 4.0  | 5.5  |  |
| L3         | 223  | 245         | 278         | 304 | 328 | 350       | 380  | 425  |  |
| G          | 130  | 145         | 175         | 195 | 195 | 215       | 240  | 275  |  |
| L2         | 81   | 81          | 81          | 81  | 81  | 93        | 93   | 101  |  |

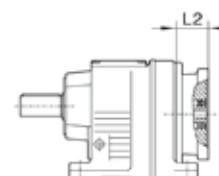
Note: "R.." means R, RF.



# R57

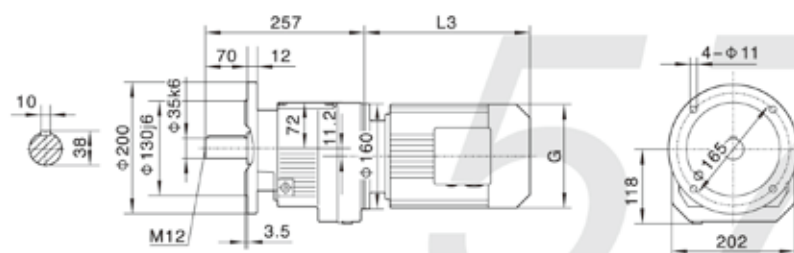


Customers provide the motor by themselves  
need connected flange.

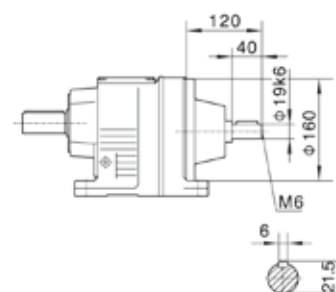


# RF57

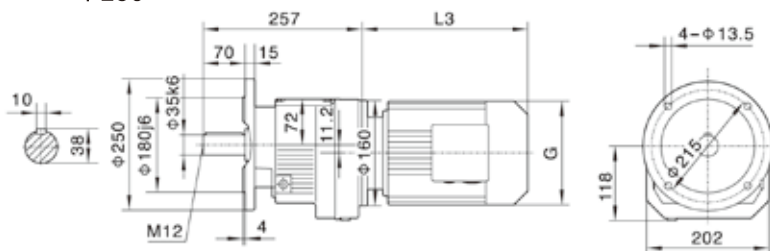
Φ 200



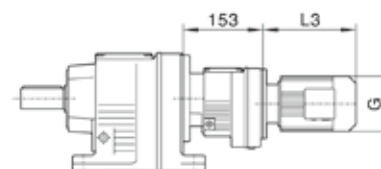
# R..S57



Φ 250



# R..57R37



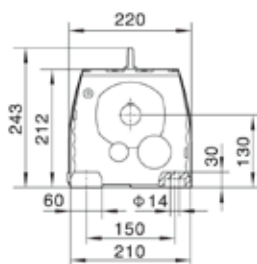
Note: For other values please  
refer to relevant structure.

| Motor size | 63   | 71        | 80        | 90S | 90L | 100L    | 112M | 132S | 132M |  |
|------------|------|-----------|-----------|-----|-----|---------|------|------|------|--|
| Power/(kW) | 0.18 | 0.25 0.37 | 0.55 0.75 | 1.1 | 1.5 | 2.2 3.0 | 4.0  | 5.5  | 7.5  |  |
| L3         | 223  | 245       | 278       | 304 | 328 | 350     | 380  | 425  | 461  |  |
| G          | 130  | 145       | 175       | 195 | 195 | 215     | 240  | 275  | 275  |  |
| L2         | 81   | 81        | 81        | 81  | 81  | 93      | 93   | 101  | 101  |  |

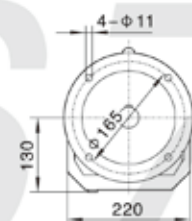
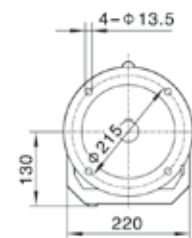
Note: "R.." means R, RF.



Technical drawing of the M12 motor. The front view shows a cylindrical motor with a mounting flange. Dimensions include a total length of 280, a mounting flange diameter of  $\phi 35k6$ , a mounting flange thickness of 10, a mounting flange outer diameter of 36, a mounting flange inner diameter of 70, a mounting flange hole diameter of  $\phi 160$ , a mounting flange hole depth of 20.7, a mounting flange hole pitch of 195, a mounting flange hole diameter of 235, a mounting flange hole diameter of 30, and a mounting flange hole diameter of 160. The side view shows a total length of L3 and a mounting flange diameter of G.



Technical drawing of a motor showing dimensions L1 and L2. L1 is the total length, and L2 is the length of the motor body.

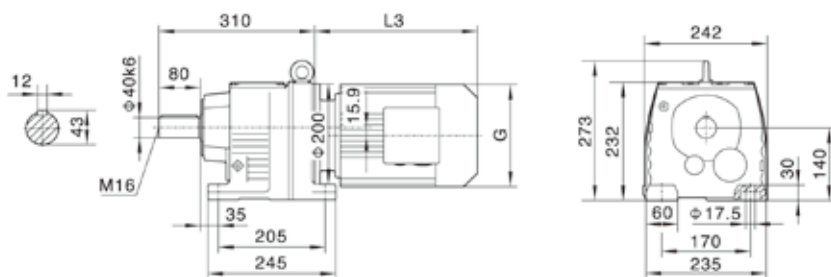
[illegible][illegible]

|            |      |      |      |      |      |     |     |      |     |      |      |      |  |
|------------|------|------|------|------|------|-----|-----|------|-----|------|------|------|--|
| Motor size | 63   | 71   |      | 80   |      | 90S | 90L | 100L |     | 112M | 132S | 132M |  |
| Power/(kW) | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2  | 3.0 | 4.0  | 5.5  | 7.5  |  |
| L3         | 223  | 245  |      | 278  |      | 304 | 328 | 350  |     | 380  | 425  | 461  |  |
| G          | 130  | 145  |      | 175  |      | 195 | 195 | 215  |     | 240  | 275  | 275  |  |
| L2         | 81   | 81   |      | 81   |      | 81  | 81  | 93   |     | 93   | 101  | 101  |  |

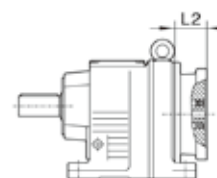
49



## R77

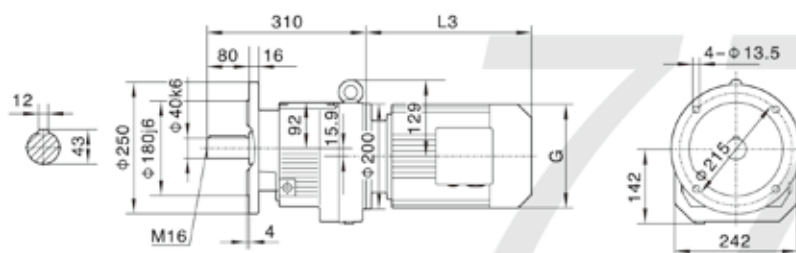


Customers provide the motor by themselves  
need connected flange.

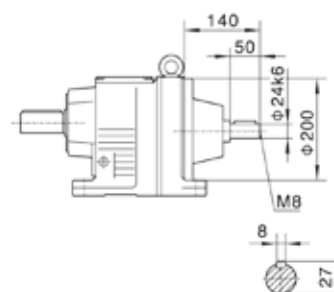


## RF77

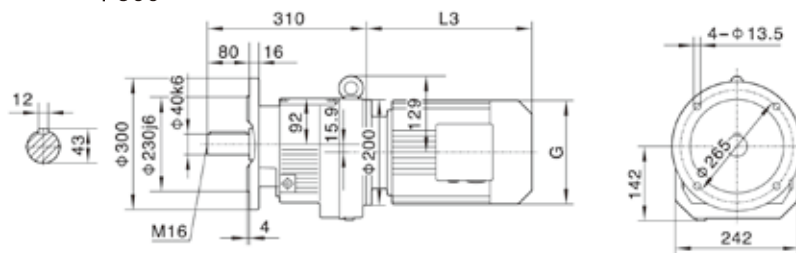
**Φ 250**



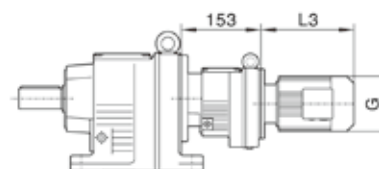
R..S77



**Φ 300**



R..77R37



Note: For other values please refer to relevant structure.

| Motor size | 63   |      | 71   |      | 80   |     | 90S | 90L | 100L |     | 112M | 132S | 132M | 160M |
|------------|------|------|------|------|------|-----|-----|-----|------|-----|------|------|------|------|
| Power/(kW) | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0  | 4.0 | 5.5  | 7.5  | 11   |      |
| L3         | 223  | 233  |      | 278  |      | 304 | 328 | 350 |      | 380 | 425  | 461  | 524  |      |
| G          | 130  | 145  |      | 175  |      | 195 | 195 | 215 |      | 240 | 275  | 275  | 330  |      |
| L2         | 81   | 81   |      | 81   |      | 81  | 81  | 93  |      | 93  | 101  | 101  | 126  |      |

Note: "R.." means R, RF.



Technical drawing of the 1000W motor showing front and top views with dimensions.

**Front View Dimensions:**

- Total width: 372
- Motor body width: L3
- Flange diameter:  $\phi 50 \text{ k6}$
- Flange thickness: 14
- Flange hole diameter:  $\phi 53.5$
- Flange hole offset: 53.5
- Motor body diameter:  $\phi 250$
- Motor body length: G
- Motor body diameter at base: 12.6
- Mounting bracket width: 100
- Mounting bracket hole diameter: M16
- Mounting bracket hole offset: 40
- Mounting bracket hole diameter: 260
- Mounting bracket hole offset: 310

**Top View Dimensions:**

- Total width: 306
- Motor body width: 350
- Motor body length: 300
- Motor body diameter at base: 45
- Motor body length at base: 180
- Mounting bracket width: 75
- Mounting bracket hole diameter:  $\phi 17.5$
- Mounting bracket hole offset: 215
- Mounting bracket hole offset: 290

Technical drawing of the rear view of the motor. It shows the mounting flange with a central hole and a circular feature. Dimension lines indicate L1 as the distance from the center of the motor to the center of the flange hole, and L2 as the distance from the center of the motor to the outer edge of the flange.

[illegible][illegible]

Technical drawing of the motor showing dimensions: 180, 60, 28±6, 250, M10, 8, 31.

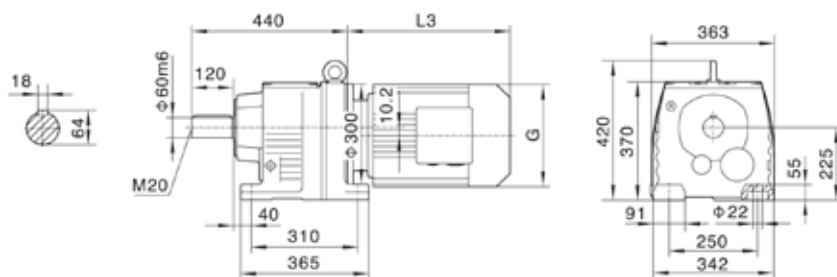
Technical drawing of the motor assembly showing dimensions 187 and L3.

| Motor size | 80   |      | 90S | 90L | 100 |     | 112M | 132S | 132M | 160M | 160L | 180M | 180L |
|------------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Power/(kW) | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0  | 5.5  | 7.5  | 11   | 15   | 18.5 | 22   |
| L3         | 246  |      | 280 | 304 | 350 |     | 380  | 425  | 461  | 524  | 547  | 583  | 616  |
| G          | 175  |      | 195 | 195 | 215 |     | 240  | 275  | 275  | 330  | 330  | 380  | 380  |
| L2         | 86   |      | 86  | 86  | 71  |     | 71   | 101  | 101  | 126  | 126  | 126  | 126  |

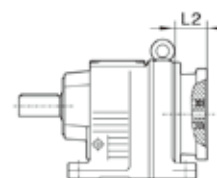
51



## R97

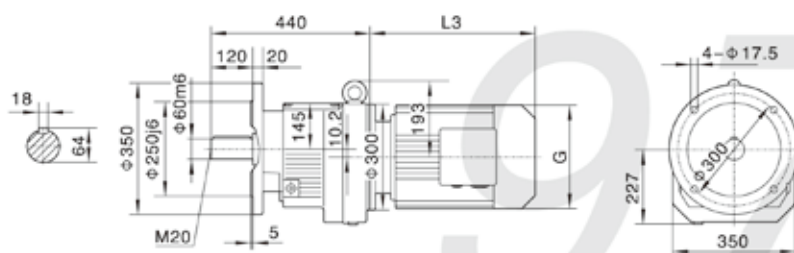


Customers provide the motor by themselves  
need connected flange.

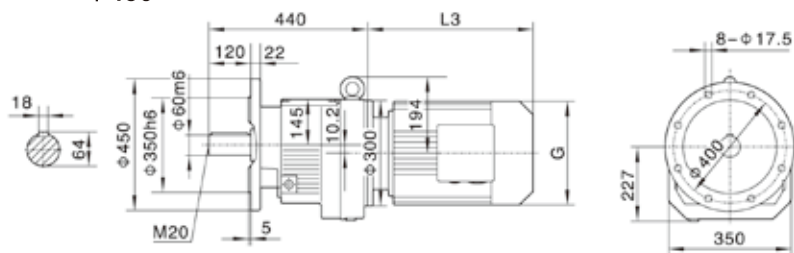


## RF97

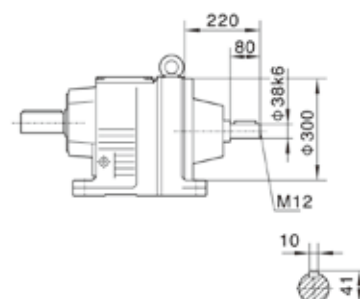
Φ 350



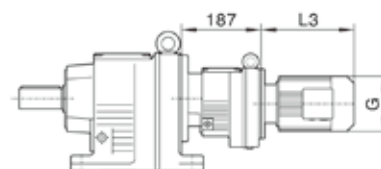
Φ 450



## R..S97



## R..97R57



Note: For other values please  
refer to relevant structure.

| Motor size | 80        | 90S | 90L | 100     | 112M | 132S | 132M | 160M | 160L | 180M | 180L | 200 |  |
|------------|-----------|-----|-----|---------|------|------|------|------|------|------|------|-----|--|
| Power/(kW) | 0.55 0.75 | 1.1 | 1.5 | 2.2 3.0 | 4.0  | 5.5  | 7.5  | 11   | 15   | 18.5 | 22   | 30  |  |
| L3         | 246       | 280 | 304 | 315     | 334  | 425  | 461  | 524  | 547  | 555  | 588  | 654 |  |
| G          | 175       | 195 | 195 | 215     | 240  | 275  | 275  | 330  | 330  | 380  | 380  | 420 |  |
| L2         | 86        | 86  | 86  | 101     | 101  | 101  | 101  | 126  | 126  | 126  | 126  | 132 |  |

Note: "R.." means R, RF.





Technical drawing of the 1000W motor showing front, side, and top views with dimensions:

- Front View (Left):** Shows a circular base with a diameter of  $\phi 74.5$  and a height of 20. The main body has a diameter of  $\phi 70\text{m6}$  and a height of 140. The base has a diameter of  $\phi 350$  and a height of 45. The total width is 505.
- Side View (Middle):** Shows the motor's profile with a total length of  $L3$  and a total width of 440. The base has a width of 370 and a height of 45. The motor body has a width of 20.4 and a height of 350. The total height is 481.
- Top View (Right):** Shows the motor's footprint with a total width of 424 and a total height of 250. The base has a width of 400 and a height of 110. The motor body has a width of 290 and a height of 65. The total height is 481.

Technical drawing of the motor showing the L2 dimension, which is the distance from the center of the motor to the center of the mounting bracket.

[illegible]

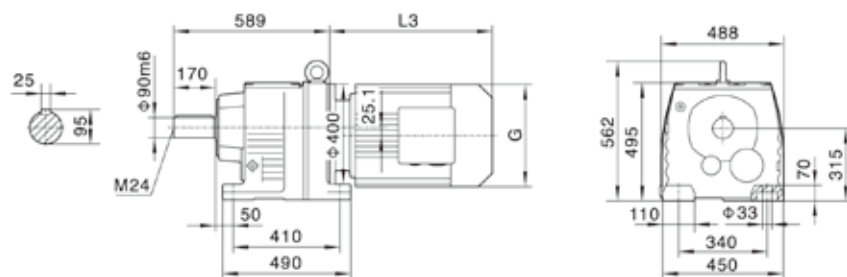
Technical drawing of the 1000 series motor showing side and front views with dimensions. The side view includes dimensions: 505 (total length), 140 (flange width), 22 (flange thickness), 164 (motor body length), 20.4 (motor body thickness), 230 (motor body length), 74.5 (flange outer diameter), 20 (flange mounting hole diameter), 2 (flange mounting hole offset), 5 (motor body mounting hole offset), 350 (motor body mounting hole diameter), 450 (motor body mounting hole diameter), 350h6 (motor body mounting hole), 70h6 (motor body mounting hole), M20 (motor body mounting hole), and L3 (motor body length). The front view includes dimensions: 8-φ17.5 (flange mounting holes), 255 (flange outer diameter), 424 (flange outer diameter), and φ400 (flange mounting hole diameter).

|            |     |     |      |      |      |      |      |      |      |     |      |      |  |
|------------|-----|-----|------|------|------|------|------|------|------|-----|------|------|--|
| Motor size | 100 |     | 112M | 132S | 132M | 160M | 160L | 180M | 180L | 200 | 225S | 225M |  |
| Power/(kW) | 2.2 | 3.0 | 4.0  | 5.5  | 7.5  | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   |  |
| L3         | 318 |     | 334  | 386  | 422  | 504  | 519  | 555  | 588  | 654 | 680  | 702  |  |
| G          | 215 |     | 240  | 275  | 275  | 330  | 330  | 380  | 380  | 420 | 470  | 470  |  |
| L2         | 101 |     | 101  | 101  | 101  | 126  | 126  | 126  | 126  | 132 | 132  | 132  |  |

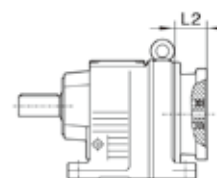
53



## R137

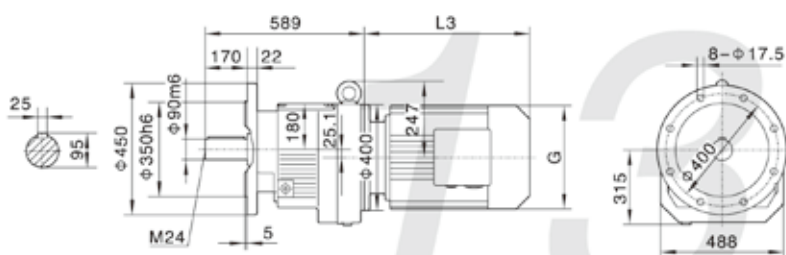


Customers provide the motor by themselves  
need connected flange.

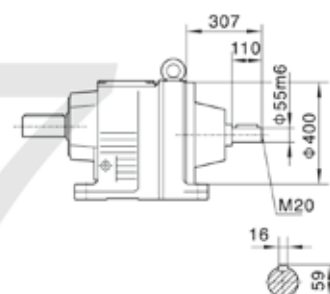


## RF137

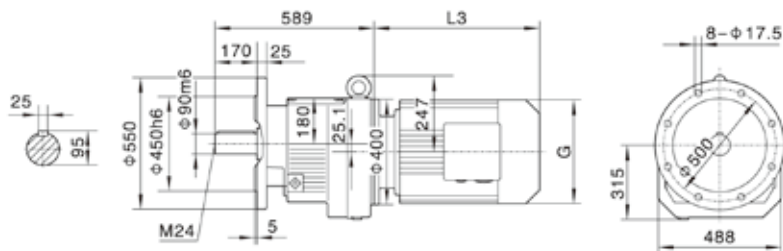
Φ 450



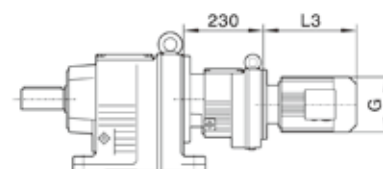
## R..S137



Φ 550



## R..137R77



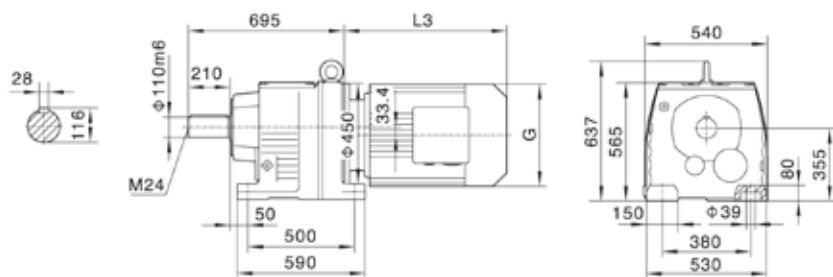
Note: For other values please  
refer to relevant structure.

| Motor size | 132S | 132M | 160M | 160L | 180M | 180L | 200 | 225S | 225M | 250 |  |
|------------|------|------|------|------|------|------|-----|------|------|-----|--|
| Power/(kW) | 5.5  | 7.5  | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   | 55  |  |
| L3         | 388  | 424  | 476  | 519  | 555  | 588  | 654 | 680  | 702  | 771 |  |
| G          | 275  | 275  | 330  | 330  | 380  | 380  | 420 | 470  | 470  | 510 |  |
| L2         | 126  | 126  | 132  | 132  | 132  | 132  | 132 | 143  | 143  | 174 |  |

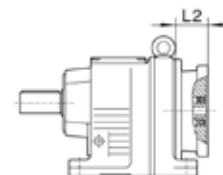
Note: "R.." means R, RF.



# R147

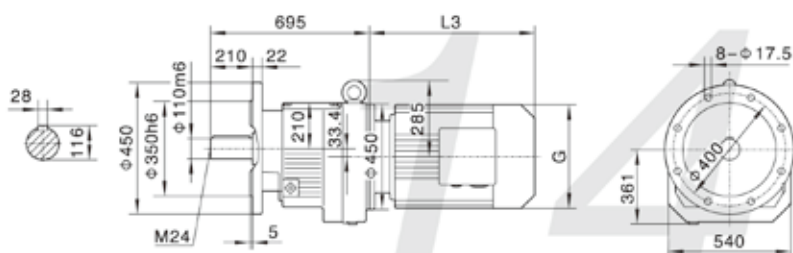


Customers provide the motor by themselves  
need connected flange.

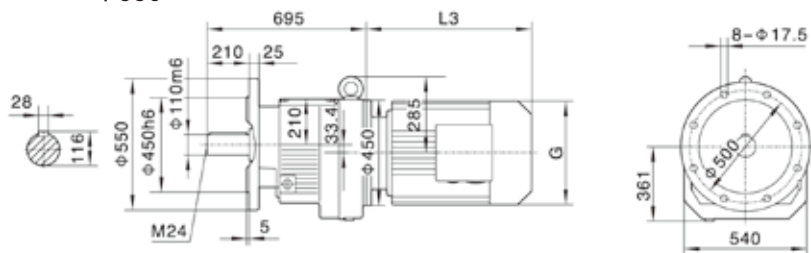


# RF147

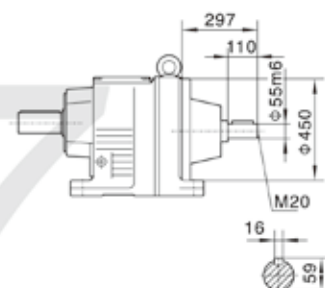
Φ450



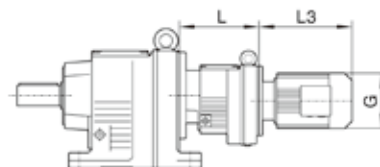
Φ550



# R..S147



# R..147R87(R77)



|   | R..147R77 | R..147R87 |
|---|-----------|-----------|
| L | 230       | 275       |

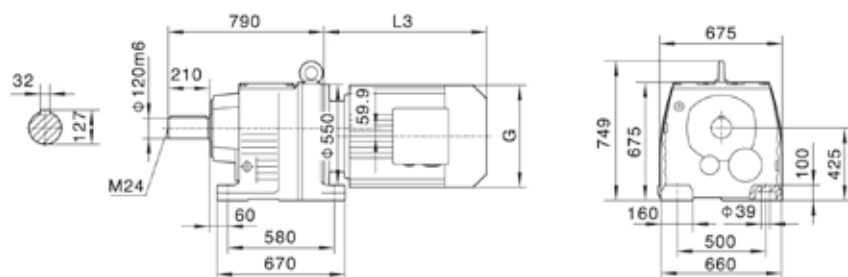
Note: For other values please  
refer to relevant structure.

| Motor size | 160M | 160L | 180M | 180L | 200 | 225S | 225M | 250 | 280S | 280M |  |
|------------|------|------|------|------|-----|------|------|-----|------|------|--|
| Power/(kW) | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   | 55  | 75   | 90   |  |
| L3         | 567  | 602  | 583  | 616  | 654 | 674  | 696  | 775 | 845  | 845  |  |
| G          | 330  | 330  | 380  | 380  | 420 | 470  | 470  | 510 | 580  | 580  |  |
| L2         | 132  | 132  | 132  | 132  | 132 | 143  | 143  | 174 | 174  | 174  |  |

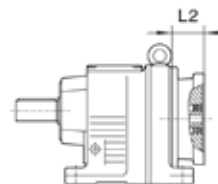
Note: "R.." means R, RF.



## R167

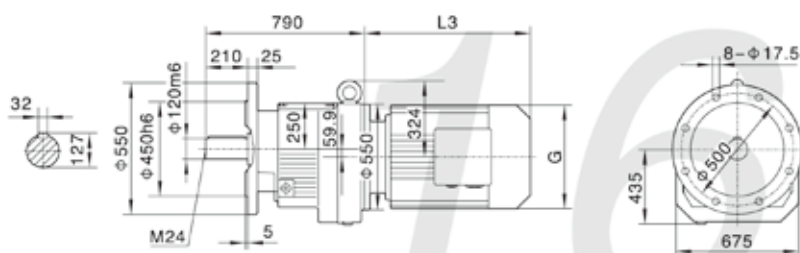


Customers provide the motor by themselves  
need connected flange.

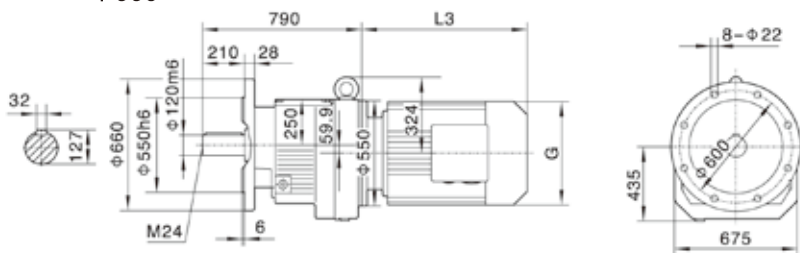


## RF167

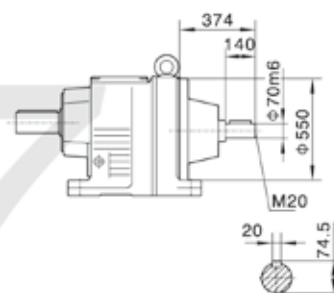
Φ 550



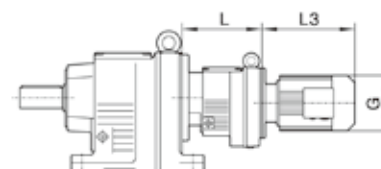
Φ 660



## R..S167



## R..167R97(R107)



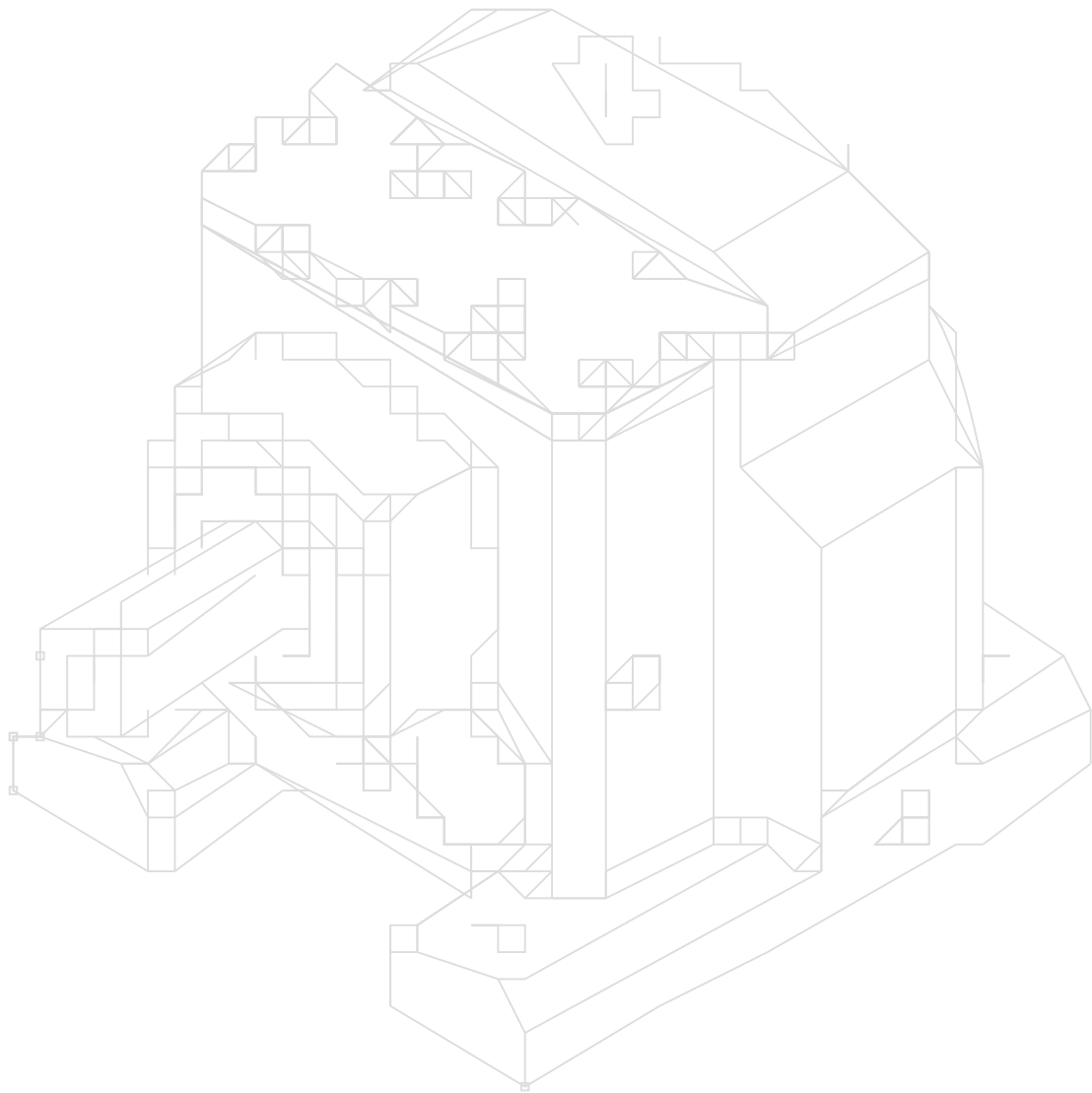
|   | R..167R97 | R..167R107 |
|---|-----------|------------|
| L | 320       | 370        |

Note: For other values please  
refer to relevant structure.

| Motor size | 160M | 160L | 180M | 180L | 200 | 225S | 225M | 250 | 280S | 280M | 315S | 315M | 315L |
|------------|------|------|------|------|-----|------|------|-----|------|------|------|------|------|
| Power/(kW) | 11   | 15   | 18.5 | 22   | 30  | 37   | 45   | 55  | 75   | 90   | 110  | 132  | 160  |
| L3         | 567  | 602  | 635  | 666  | 642 | 669  | 691  | 770 | 828  | 879  | 1100 | 1130 | 1360 |
| G          | 330  | 330  | 380  | 380  | 420 | 470  | 470  | 510 | 580  | 580  | 645  | 645  | 645  |
| L2         | 143  | 143  | 143  | 143  | 143 | 143  | 143  | 113 | 113  | 113  | 113  | 145  | 145  |

Note: "R.." means R, RF.

R



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