## Product

## Catalogue

Helical Bevel Gear Unit

## Project planning sequence

The following flow chart shows the steps for planning a project including a gear unit whit a component on the input side.

## Necessary information regarding the machine to be driven

- Technical data and environmental conditions
- Accuracy of machine operation
- Speed and volume of operation
- Starting acceleration and deceleration
- Cyclic duration factor and starting frequency


## Calculation of the relevant application data

- Static and dynamic power
- Rotational speeds, output speed
- Torques, power ratings
- Travel diagram, if required
- Determination of the required service factor


## Gear unit selection

- Definition of gear unit type, gear unit size, gear unit ratio, and gear unit design
- Checking the positioning accuracy
- Checking the service factor


## Options



## Service factor

The method for determining the maximum permitted continuous torque and using the value to derive the service factor is not defined in a standard and varies greatly form manufacturer to manufacturer. Customer should take required service factor into consideration while selecting a gear unit. With a service factor of less than 1, customer is held responsible of any operating failures of the gear unit. If in doubt contact Sharif Gearbox.

## Required service factor

The operating conditions are considered in order to determine the required service factor for the gearmotor selection. Decisive factors are the requirements of the driven machine, as well as the ambient temperature and gear unit type, if applicable.

## Application service factor

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the application service factor. The service factor is determined according to the daily operating time and switching frequency Z . Three load classifications are taken into account depending on the mass acceleration factor. You can read the service factor applicable to your application from the following diagram.

[1] Service factor in relation to the daily operating time in hours/day
[2] Switching frequency Z: The cycles include all starting and braking procedures as well as changeovers from low to high speed and vice versa.
[3] Curves for load classification I, II and III

The following 3 load classifications are distinguished:

- Load classification I: Uniform, almost no shock load, permitted mass acceleration factor $<=0.2$
- Load classification II: Non-uniform, moderate shock load, permitted mass acceleration factor <= 3
- Load classification III: Very non-uniform. Severe shock load, permitted mass acceleration factor <= 10


## Service factor at low temperature

At an ambient temperature of below -30 C, observe the additional service factor of 1.2.


| 1.Pinion | 22. Gear Case | 100. Gear Case Cover |
| :--- | :--- | :--- |
| 2. Gear | 25. Anti-Friction Bearing | 101. Hex Head Bolt |
| 3. Pinion Shaft | 30. Anti-Friction Bearing | 102. Sealing Compound |
| 4. Gear | 31. Gear | 113. Sloted Round Nut |
| 5. Pinion Shaft | 3. Anti-Friction Bearing | 114. Multi-Tag Washer |
| 6. Gear | 39. Circlip | 116. Thread Lock |
| 7. Output Shaft | 42. Anti-Friction Bearing | 119. Spacer |
| 8. Key | 43. Key | 131. Closing Cap |
| 9. Oil Seal | 45. Anti-Friction Bearing | 132. Circlip |
| 11. Anti-Friction Bearing | 59. Screw Plug | 133. Spacer |
| 12. Circlip | 83. Nilos Ring | 135. Nilos Ring |
| 17. Spacer | 84. Nilos Ring | 161. Closing Cap |
| 19. Key | 88. Circlip | 506 $\ldots$ 544. Shim Ring |
| 20. Breather Valve | 89. Closing Cap |  |

Information on the selection table

| $P(k w)$ | n2 (rpm) | Ratio | $\mathrm{T}(\mathrm{Nm})$ | Fs | Motor | K Type |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

P(kw): Power supplied by electric motor in KW
n2: Output Rotation of the gear unit RPM
Calculation: $n 2=n 1 / \mathrm{i}$
for the purpose of the catalogue n 1 assumptions are as follows:
4 Pole electric motor $=1450 \mathrm{rpm}$
6 Pole electric motor $=950 \mathrm{rpm}$

Ratio: reduction ratio of the gear unit (i)
T: The output torque in Nm
Calculation: 9550*(P(kw)/n2)
Fs: Total service factor of the unit

Motor: Number of poles of the electric motor

K type: Type number offered

## Mounting positions



| P (kw) | n2 (rpm) | Ratio | T ( Nm ) | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.37 | 9 | 155 | 393 | 3.6 | 4P | 77 |
|  | 8 | 115.89 | 442 | 3.6 | $6 p$ |  |
|  | 6 | 155 | 589 | 2.34 |  |  |
|  | 15 | 60.7 | 236 | 2.84 | 6P | 67 |
|  | 21 | 45.35 | 168 | 4.24 |  |  |
|  | 18 | 54.13 | 196 | 2.56 | 6P | 57 |
|  | 22 | 42.74 | 161 | 3.12 |  |  |
|  | 27 | 54.13 | 131 | 3.92 | 4P |  |
|  | 34 | 42.74 | 104 | 4.8 |  |  |
|  | 44 | 32.63 | 80 | 6.1 |  |  |
|  | 54 | 27.05 | 65 | 7.5 |  |  |
|  | 65 | 22.34 | 54 | 9.1 |  |  |
|  | 72 | 20.15 | 49 | 10 |  |  |
|  | 95 | 15.36 | 37 | 12 |  |  |
| 0.55 | 8 | 117.51 | 657 | 3.73 | 6P | 87 |
|  | 10 | 96.77 | 525 | 4 |  |  |
|  | 9 | 155 | 584 | 2.4 | 4P | 77 |
|  | 12 | 115.89 | 438 | 3.64 |  |  |
|  | 16 | 90.59 | 328 | 4.4 |  |  |
|  | 6 | 155 | 875 | 1.56 | 6P |  |
|  | 8 | 115.89 | 657 | 2.4 |  |  |
|  | 11 | 90.59 | 478 | 3 |  |  |
|  | 16 | 60.7 | 328 | 1.89 | 6 P | 67 |
|  | 21 | 45.35 | 250 | 2.83 |  |  |
|  | 24 | 60.7 | 219 | 2.85 | 4P |  |
|  | 17 | 54.13 | 309 | 1.71 | 6P | 57 |
|  | 22 | 42.74 | 239 | 2 |  |  |
|  | 27 | 54.13 | 195 | 2.6 | 4P |  |
|  | 34 | 42.74 | 154 | 3.2 |  |  |
|  | 44 | 32.63 | 119 | 4.1 |  |  |
|  | 54 | 27.05 | 97 | 5 |  |  |
|  | 65 | 22.34 | 81 | 6.1 |  |  |
|  | 72 | 20.15 | 73 | 6.6 |  |  |
|  | 95 | 15.38 | 55 | 8.4 |  |  |
| 0.75 | 8 | 117.51 | 895 | 2.8 | 6 P | 87 |
|  | 10 | 96.77 | 716 | 3 |  |  |
|  | 9 | 155 | 796 | 1.8 |  | 77 |
|  | 12 | 115.89 | 597 | 2.73 | 4P |  |
|  | 16 | 90.59 | 448 | 3.33 |  |  |
|  | 6 | 155 | 1194 | 1.17 | 6P |  |
|  | 8 | 115.89 | 895 | 1.8 |  |  |
|  | 11 | 90.59 | 651 | 2.25 |  |  |
|  | 16 | 60.7 | 448 | 1.4 | 6P | 67 |
|  | 21 | 45.35 | 341 | 2.12 |  |  |


| P (kw) | n 2 (rpm) | Ratio | T ( Nm ) | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.75 | 24 | 60.7 | 298 | 2.14 | 4 P | 67 |
|  | 32 | 45.35 | 224 | 3.2 |  |  |
|  | 27 | 54.13 | 265 | 1.96 | 4P | 57 |
|  | 34 | 42.74 | 211 | 2.4 |  |  |
|  | 44 | 32.63 | 163 | 3 |  |  |
|  | 54 | 27.05 | 133 | 3.76 |  |  |
|  | 65 | 22.34 | 110 | 4.58 |  |  |
|  | 70 | 20.65 | 102 | 4.78 |  |  |
|  | 82 | 17.64 | 87 | 5.7 |  |  |
|  | 95 | 15.41 | 75 | 6.34 |  |  |
|  | 107 | 13.46 | 67 | 7.2 |  |  |
| 1.1 | 8 | 117.51 | 1313 | 1.87 | 6 P | 87 |
|  | 10 | 96.77 | 1051 | 2 |  |  |
|  | 12 | 79.13 | 875 | 2.72 |  |  |
|  | 15 | 65.17 | 700 | 2.85 |  |  |
|  | 16 | 91.6 | 657 | 3.6 | 4P |  |
|  | 12 | 115.89 | 875 | 1.82 | 4P | 77 |
|  | 16 | 90.59 | 657 | 2.22 |  |  |
|  | 23 | 61.7 | 457 | 2.86 |  |  |
|  | 31 | 46.21 | 339 | 3.74 |  |  |
|  | 8 | 115.89 | 1313 | 1.2 | 6P |  |
|  | 11 | 90.59 | 955 | 1.5 |  |  |
|  | 21 | 45.35 | 500 | 1.41 | 6P | 67 |
|  | 24 | 60.7 | 438 | 1.43 | 4 P |  |
|  | 32 | 45.35 | 328 | 2.15 |  |  |
|  | 41 | 35.41 | 256 | 2.9 |  |  |
|  | 51 | 28.46 | 206 | 2.9 |  |  |
|  | 63 | 22.88 | 167 | 4 |  |  |
|  | 27 | 54.13 | 389 | 1.31 | 4P | 57 |
|  | 34 | 42.74 | 309 | 1.6 |  |  |
|  | 44 | 32.63 | 239 | 2 |  |  |
|  | 54 | 27.05 | 195 | 2.51 |  |  |
|  | 65 | 22.34 | 162 | 3 |  |  |
|  | 70 | 20.65 | 150 | 3.19 |  |  |
|  | 82 | 17.64 | 128 | 3.8 |  |  |
|  | 95 | 15.41 | 111 | 4.23 |  |  |
|  | 107 | 13.46 | 98 | 4.81 |  |  |
| 1.5 | 5 | 187.72 | 2101 | 1.43 | 6 P | 97 |
|  | 8 | 115.71 | 1791 | 2.4 |  |  |
|  | 10 | 99.47 | 1433 | 2.5 |  |  |
|  | 10 | 139.54 | 1433 | 3.1 | 4P |  |
|  | 10 | 96.77 | 1433 | 1.52 | 6P | 87 |
|  | 12 | 79.13 | 1194 | 2 |  |  |
|  | 15 | 65.17 | 955 | 2.14 |  |  |
|  | 16 | 91.6 | 895 | 2.7 | 4P |  |


| P (kw) | n2 (rpm) | Ratio | $\mathrm{T}(\mathrm{Nm})$ | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.5 | 12 | 115.89 | 1194 | 1.37 |  |  |
|  | 16 | 90.59 | 895 | 1.67 |  |  |
|  | 20 | 73.57 | 716 | 1.82 | 4 P | 77 |
|  | 23 | 61.7 | 623 | 2.15 |  |  |
|  | 31 | 46.13 | 462 | 3.27 |  |  |
|  | 24 | 60.7 | 597 | 1 |  |  |
|  | 32 | 45.35 | 448 | 1.61 |  |  |
|  | 41 | 35.41 | 349 | 2.19 |  |  |
|  | 47 | 30.63 | 305 | 2 | 4P | 67 |
|  | 51 | 28.46 | 281 | 2.12 |  |  |
|  | 63 | 22.8 | 227 | 3 |  |  |
|  | 81 | 17.87 | 177 | 4.2 |  |  |
|  | 100 | 14.36 | 143 | 4.9 |  |  |
|  | 34 | 42.74 | 421 | 1.2 |  |  |
|  | 44 | 32.63 | 326 | 1.54 |  |  |
|  | 54 | 27.05 | 265 | 1.88 |  |  |
|  | 65 | 22.34 | 220 | 2.29 |  |  |
|  | 70 | 20.65 | 205 | 2.39 |  |  |
|  | 82 | 17.64 | 175 | 2.85 | 4 P | 57 |
|  | 95 | 15.41 | 151 | 3.17 |  |  |
|  | 107 | 13.46 | 134 | 3.61 |  |  |
|  | 123 | 11.74 | 116 | 4.19 |  |  |
|  | 144 | 10.05 | 99 | 4.45 |  |  |
|  | 156 | 9.27 | 92 | 5.3 |  |  |
| 2.2 | 10 | 139.54 | 2101 | 2 | P |  |
|  | 13 | 107.61 | 1616 | 2.45 |  |  |
|  | 7 | 139.54 | 3001 | 1.35 |  | 97 |
|  | 11 | 85.76 | 1910 | 1.68 | 6 P |  |
|  | 15 | 64.19 | 1401 | 2.83 |  |  |
|  | 10 | 96.77 | 2101 | 1 | 6P |  |
|  | 12 | 117.51 | 1751 | 1.43 |  |  |
|  | 16 | 91.6 | 1313 | 1.8 | 4P | 87 |
|  | 25 | 57.44 | 840 | 2.77 |  |  |
|  | 30 | 47.3 | 700 | 2.77 |  |  |
|  | 17 | 55 | 1236 | 1.21 |  |  |
|  | 22 | 42.99 | 955 | 1.44 | 6 P |  |
|  | 28 | 34.55 | 750 | 1.88 |  |  |
|  | 20 | 73.57 | 1051 | 1.2 |  | 77 |
|  | 23 | 61.7 | 913 | 1.43 |  |  |
|  | 31 | 46.13 | 678 | 2.18 | 4P |  |
|  | 40 | 36.06 | 525 | 2.44 |  |  |
|  | 50 | 29.28 | 420 | 2.87 |  |  |
|  | 41 | 35.41 | 512 | 1.46 |  |  |
|  | 51 | 28.46 | 412 | 1.41 | 4P | 67 |
|  | 63 | 22.88 | 333 | 2 |  |  |



| P (kw) | n2 (rpm) | Ratio | T ( Nm ) | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 100 | 14.36 | 287 | 2.45 | 4P | 67 |
|  | 110 | 13.29 | 260 | 2.2 |  |  |
|  | 145 | 9.93 | 198 | 3.3 |  |  |
|  | 70 | 20.65 | 409 | 1.2 | 4P | 57 |
|  | 82 | 17.64 | 349 | 1.43 |  |  |
|  | 95 | 15.41 | 302 | 1.48 |  |  |
|  | 107 | 13.46 | 268 | 1.8 |  |  |
|  | 123 | 11.74 | 233 | 2.1 |  |  |
|  | 144 | 10.05 | 199 | 2.23 |  |  |
|  | 156 | 9.27 | 184 | 2.65 |  |  |
| 4 | 7 | 195.82 | 5457 | 1.31 | 4P | 107 |
|  | 10 | 140.53 | 3820 | 1.69 |  |  |
|  | 16 | 90.51 | 2388 | 2.69 |  |  |
|  | 12 | 78.67 | 3183 | 2.1 | 6P |  |
|  | 15 | 64.19 | 2547 | 1.54 | 6 P | 97 |
|  | 20 | 47.28 | 1910 | 2.26 | $6 P$ |  |
|  | 16 | 89.29 | 2388 | 1.3 | 4P |  |
|  | 20 | 71.12 | 1910 | 1.34 |  |  |
|  | 24 | 61.31 | 1592 | 2.44 |  |  |
|  | 30 | 47.28 | 1273 | 3.44 |  |  |
|  | 18 | 79.13 | 2122 | 1.13 | 4P | 87 |
|  | 25 | 57.44 | 1528 | 1.5 |  |  |
|  | 30 | 47.3 | 1273 | 1.5 |  |  |
|  | 34 | 42.69 | 1124 | 2 |  |  |
|  | 41 | 35.16 | 932 | 2.65 |  |  |
|  | 50 | 29.51 | 764 | 3.27 |  |  |
|  | 31 | 46.13 | 1232 | 1.19 | 4P | 77 |
|  | 40 | 36.06 | 955 | 1.33 |  |  |
|  | 50 | 29.28 | 764 | 1.57 |  |  |
|  | 54 | 27 | 707 | 1.72 |  |  |
|  | 66 | 21.89 | 579 | 2.4 |  |  |
|  | 78 | 18.39 | 490 | 2.42 |  |  |
|  | 43 | 21.89 | 888 | 1.58 | 6P |  |
|  | 55 | 17.11 | 695 | 2.16 |  |  |
|  | 63 | 22.88 | 606 | 1.11 | 4P | 67 |
|  | 81 | 17.87 | 472 | 1.53 |  |  |
|  | 100 | 14.36 | 382 | 1.78 |  |  |
|  | 110 | 13.29 | 347 | 1.61 |  |  |
|  | 145 | 9.93 | 263 | 2.4 |  |  |
|  | 95 | 15.41 | 402 | 1.15 | 4P | 57 |
|  | 107 | 13.46 | 357 | 1.31 |  |  |
|  | 123 | 11.74 | 311 | 1.52 |  |  |
|  | 144 | 10.05 | 265 | 1.62 |  |  |
|  | 156 | 9.27 | 245 | 1.93 |  |  |


| P (kw) | n2 (rpm) | Ratio | $\mathrm{T}(\mathrm{Nm})$ | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 205 | 7.08 | 186 | 2.42 | 4P | 57 |
| 5.5 | 12 | 78.67 | 4377 | 1.55 | 6P | 107 |
|  | 8 | 179.04 | 6566 | 1 | 4P |  |
|  | 10 | 140.53 | 5253 | 1.24 |  |  |
|  | 17 | 86.04 | 3090 | 2 |  |  |
|  | 24 | 61.75 | 2189 | 3.3 |  |  |
|  | 15 | 61.31 | 3502 | 1.18 | 6P | 97 |
|  | 20 | 47.28 | 2626 | 1.66 |  |  |
|  | 24 | 61.31 | 2189 | 1.79 | 4P |  |
|  | 30 | 47.28 | 1751 | 2.5 |  |  |
|  | 38 | 37.68 | 1382 | 2.72 |  |  |
|  | 34 | 42.69 | 1545 | 1.48 | 4P | 87 |
|  | 41 | 35.16 | 1281 | 1.95 |  |  |
|  | 50 | 28.75 | 1051 | 2.14 |  |  |
|  | 63 | 23 | 834 | 3 |  |  |
|  | 27 | 35.16 | 1945 | 1.28 | 6P |  |
|  | 35 | 27.41 | 1501 | 1.62 |  |  |
|  | 40 | 23.68 | 1313 | 1.86 |  |  |
|  | 47 | 19.87 | 1118 | 2.3 |  |  |
|  | 55 | 17.11 | 955 | 1.58 | 6P | 77 |
|  | 42 | 34.55 | 1251 | 1.14 | 4 P |  |
|  | 54 | 27.01 | 973 | 1.26 |  |  |
|  | 66 | 21.89 | 796 | 1.76 |  |  |
|  | 78 | 18.39 | 673 | 1.77 |  |  |
|  | 84 | 17.11 | 625 | 2.4 |  |  |
|  | 105 | 13.75 | 500 | 2.72 |  |  |
|  | 100 | 14.36 | 525 | 1.31 | 4P | 67 |
|  | 110 | 13.29 | 478 | 1.18 |  |  |
|  | 145 | 9.93 | 362 | 1.78 |  |  |
|  | 187 | 7.76 | 281 | 2.43 |  |  |
| 7.5 | 11 | 82.76 | 4775 | 1.11 | 6 P | 107 |
|  | 15 | 61.75 | 4775 | 1.63 | 6 |  |
|  | 17 | 86.04 | 4213 | 1.56 | 4P |  |
|  | 23 | 61.75 | 3114 | 2.48 |  |  |
|  | 29 | 49.91 | 2470 | 3 |  |  |
|  | 24 | 61.31 | 2984 | 1.34 | 4P | 97 |
|  | 30 | 47.28 | 2388 | 1.89 |  |  |
|  | 38 | 37.68 | 1885 | 2 |  |  |
|  | 42 | 34.12 | 1705 | 2.32 |  |  |
|  | 51 | 28.2 | 1404 | 2.77 |  |  |
|  | 20 | 47.28 | 3581 | 1.25 | 6 P |  |
|  | 34 | 28.2 | 2107 | 1.83 |  |  |
|  | 44 | 21.75 | 1628 | 2.58 |  |  |
|  | 55 | 17.33 | 1302 | 3.2 |  |  |


| P (kw) | n2 (rpm) | Ratio | $\mathrm{T}(\mathrm{Nm})$ | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7.5 | 35 | 27.41 | 2046 | 1.22 | 6P | 87 |
|  | 41 | 23 | 1747 | 1.5 |  |  |
|  | 34 | 42.69 | 2107 | 1.11 | 4P |  |
|  | 41 | 35.16 | 1747 | 1.46 |  |  |
|  | 50 | 29.51 | 1433 | 1.8 |  |  |
|  | 63 | 23 | 1137 | 2.28 |  |  |
|  | 73 | 19.87 | 981 | 2.62 |  |  |
|  | 84 | 17.19 | 853 | 2.86 |  |  |
|  | 100 | 14.42 | 716 | 3.5 |  |  |
|  | 66 | 21.89 | 1085 | 1.32 | 4 P | 77 |
|  | 85 | 17.11 | 843 | 1.81 |  |  |
|  | 105 | 13.75 | 682 | 2 |  |  |
|  | 123 | 11.78 | 582 | 2 |  |  |
|  | 135 | 10.75 | 531 | 2.8 |  |  |
|  | 165 | 8.81 | 434 | 3.1 |  |  |
| 11 | 15 | 61.75 | 4775 | 1 |  | 107 |
|  | 19 | 49.91 | 5529 | 1.33 | 6 P |  |
|  | 26 | 36.36 | 4040 | 1.6 |  |  |
|  | 18 | 86.04 | 5836 | 1.17 | 4P |  |
|  | 24 | 61.75 | 4377 | 1.65 |  |  |
|  | 29 | 49.91 | 3622 | 2 |  |  |
|  | 36 | 39.77 | 2918 | 2.13 |  |  |
|  | 40 | 36.36 | 2626 | 2.42 |  |  |
|  | 30 | 47.28 | 3502 | 1.26 | 4P | 97 |
|  | 38 | 37.68 | 2764 | 1.36 |  |  |
|  | 42 | 34.12 | 2501 | 1.55 |  |  |
|  | 51 | 28.2 | 2060 | 1.85 |  |  |
|  | 66 | 21.57 | 1592 | 2.6 |  |  |
|  | 72 | 20.11 | 1459 | 2.87 |  |  |
|  | 28 | 34.12 | 3752 | 1 | 6 P |  |
|  | 33 | 28.7 | 3183 | 1.2 |  |  |
|  | 44 | 21.75 | 2388 | 1.72 |  |  |
|  | 55 | 17.33 | 1910 | 2.19 |  |  |
|  | 50 | 29.51 | 2101 | 1.2 | 4P | 87 |
|  | 63 | 23 | 1667 | 1.52 |  |  |
|  | 73 | 19.87 | 1439 | 1.74 |  |  |
|  | 84 | 17.19 | 1251 | 1.91 |  |  |
|  | 100 | 14.42 | 1051 | 2.36 |  |  |
|  | 118 | 12.27 | 890 | 2.35 |  |  |
|  | 85 | 17.11 | 1236 | 1.2 | 4P | 77 |
|  | 105 | 13.75 | 1000 | 1.3 |  |  |
|  | 123 | 11.78 | 854 | 1.34 |  |  |
|  | 135 | 10.75 | 778 | 1.88 |  |  |
|  | 165 | 8.81 | 637 | 2 |  |  |


| P (kw) | n2 (rpm) | Ratio | T ( Nm ) | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 19 | 49.91 | 5529 | 1 | 6P | 107 |
|  | 24 | 61.75 | 5969 | 1.24 | 4 P |  |
|  | 29 | 49.91 | 4940 | 1.5 |  |  |
|  | 36 | 39.77 | 3979 | 1.6 |  |  |
|  | 40 | 36.36 | 3581 | 1.82 |  |  |
|  | 50 | 28.54 | 2865 | 2.57 |  |  |
|  | 63 | 23.07 | 2274 | 3.25 |  |  |
|  | 44 | 21.75 | 3256 | 1.29 | 6P | 97 |
|  | 55 | 17.33 | 2605 | 1.64 |  |  |
|  | 33 | 43.71 | 4341 | 1 | 4 P |  |
|  | 51 | 28.2 | 2809 | 1.38 |  |  |
|  | 66 | 21.75 | 2170 | 1.95 |  |  |
|  | 72 | 20.11 | 1990 | 2.15 |  |  |
|  | 84 | 17.33 | 1705 | 2.52 |  |  |
|  | 96 | 14.99 | 1492 | 2.49 |  |  |
|  | 63 | 23 | 2274 | 1.14 | 4 P | 87 |
|  | 73 | 19.87 | 1962 | 1.31 |  |  |
|  | 84 | 17.19 | 1705 | 1.43 |  |  |
|  | 100 | 14.42 | 1433 | 1.77 |  |  |
|  | 118 | 12.27 | 1214 | 1.77 |  |  |
|  | 143 | 10.11 | 1002 | 2.35 |  |  |
| 18.5 | 29 | 49.91 | 6092 | 1.2 | 4P | 107 |
|  | 36 | 39.77 | 4908 | 1.28 |  |  |
|  | 40 | 36.36 | 4417 | 1.45 |  |  |
|  | 50 | 28.54 | 3534 | 2 |  |  |
|  | 63 | 23.07 | 2804 | 2.6 |  |  |
|  | 69 | 20.97 | 2561 | 2.6 |  |  |
|  | 33 | 28.54 | 5354 | 1.35 | 6 P |  |
|  | 41 | 23.07 | 4309 | 1.69 |  |  |
|  | 44 | 21.75 | 4015 | 1 | 6 P | 97 |
|  | 55 | 17.33 | 3212 | 1.3 |  |  |
|  | 66 | 21.75 | 2677 | 1.56 | 4 P |  |
|  | 72 | 20.11 | 2454 | 1.72 |  |  |
|  | 84 | 17.33 | 2103 | 2 |  |  |
|  | 96 | 14.99 | 1840 | 1.99 |  |  |
|  | 115 | 12.61 | 1536 | 2.33 |  |  |
|  | 125 | 11.56 | 1413 | 2.8 |  |  |
|  | 84 | 17.19 | 2103 | 1.15 | 4P | 87 |
|  | 100 | 14.42 | 1767 | 1.41 |  |  |
|  | 118 | 12.27 | 1497 | 1.41 |  |  |
|  | 143 | 10.11 | 1235 | 1.88 |  |  |
| 22 | 29 | 49.91 | 6092 | 1 | 4P | 107 |
|  | 36 | 39.77 | 4908 | 1 |  |  |
|  | 40 | 36.36 | 5253 | 1.2 |  |  |


| P (kw) | n2 (rpm) | Ratio | $\mathrm{T}(\mathrm{Nm})$ | Fs | Motor | K Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22 | 50 | 28.54 | 4202 | 1.71 | 4 P | 107 |
|  | 63 | 23.07 | 3335 | 2.16 |  |  |
|  | 75 | 19.18 | 2801 | 2.19 |  |  |
|  | 96 | 15.05 | 2189 | 3.12 |  |  |
|  | 120 | 12.16 | 1751 | 3.95 |  |  |
|  | 33 | 28.54 | 6367 | 1.13 | 6P |  |
|  | 41 | 23.07 | 5124 | 1.41 |  |  |
|  | 50 | 19.18 | 4202 | 1.45 |  |  |
|  | 55 | 17.33 | 3820 | 1.1 | 4 P | 97 |
|  | 66 | 21.75 | 3183 | 1.3 |  |  |
|  | 72 | 20.11 | 2918 | 1.43 |  |  |
|  | 84 | 17.33 | 2501 | 1.68 |  |  |
|  | 96 | 14.99 | 2189 | 1.66 |  |  |
|  | 115 | 12.61 | 1827 | 1.95 |  |  |
|  | 125 | 11.56 | 1681 | 2.33 |  |  |
| 30 | 50 | 28.54 | 5730 | 1.28 | 4 P | 107 |
|  | 63 | 23.07 | 4548 | 1.62 |  |  |
|  | 75 | 19.18 | 3820 | 1.64 |  |  |
|  | 96 | 15.05 | 2984 | 2.34 |  |  |
|  | 120 | 12.16 | 2388 | 2.96 |  |  |
|  | 84 | 17.33 | 3411 | 1.26 | 4 P | 97 |
|  | 96 | 14.99 | 2984 | 1.24 |  |  |
|  | 115 | 12.61 | 2491 | 1.46 |  |  |
|  | 125 | 11.56 | 2292 | 1.75 |  |  |
| 37 | 51 | 28.54 | 5618 | 1 | 4 P | 107 |
|  | 63 | 23.07 | 5609 | 1.3 |  |  |
|  | 75 | 19.18 | 4711 | 1.31 |  |  |
|  | 96 | 15.05 | 3681 | 1.87 |  |  |
|  | 120 | 12.16 | 2945 | 2.37 |  |  |
| 45 | 63 | 23.07 | 5609 | 1.08 | 4 P | 107 |
|  | 75 | 19.18 | 4711 | 1.1 |  |  |
|  | 96 | 15.05 | 4477 | 1.56 |  |  |
|  | 120 | 12.16 | 3581 | 1.97 |  |  |

K57


| L1 | L2 | H2 | Ch | CL | W | Wb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $* *$ | 265 | 221 | 132 | 80 | 158 | 130 |
| Hb | OL | Lb | Od | K | Kh |  |
| 150 | 70 | 130 | 35 | 10 | 30 |  |



K67


| L1 | L2 | H2 | Ch | CL | W | Wb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $* *$ | 276 | 234 | 140 | 90 | 170 | 140 |
| Hb | OL | Lb | Od | K | Kh |  |
| 160 | 80 | 120 | 40 | 120 | 35 |  |



K77


| L1 | L2 | H2 | Ch | CL | W | Wb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $* *$ | 320 | 287 | 180 | 118 | 200 | 165 |
| Hb | OL | Lb | Od | K | Kh |  |
| 200 | 100 | 150 | 50 | 14 | 44.5 |  |



K87


| L1 | L2 | H2 | Ch | CL | W | Wb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $* *$ | 389 | 345 | 212 | 132 | 235 | 180 |
| Hb | OL | Lb | Od | K | Kh |  |
| 233 | 120 | 180 | 60 | 18 | 53 |  |



K97


| L1 | L2 | H2 | Ch | CL | W | Wb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $* *$ | 455 | 422 | 265 | 160 | 290 | 240 |
| Hb | OL | Lb | Od | K | Kh |  |
| 295 | 140 | 240 | 70 | 20 | 62.5 |  |



K107


| L1 | L2 | H2 | Ch | CL | W | Wb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $* *$ | 542 | 511 | 315 | 200 | 340 | 270 |
| Hb | OL | Lb | Od | K | Kh |  |
| 360 | 170 | 280 | 90 | 25 | 81 |  |



## CONTACT

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