



## F系列平行轴斜齿轮减速机

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**动力传动专业制造商**

**PROFESSIONAL MANUFACTURER OF POWER TRANSMISSION**

**设计理念:** 遵循规律, 总是超越

**DESIGN PHILOSOPHY:** To follow the law, but always beyond.

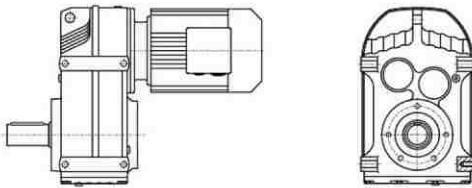
**经营理念:** 为客户需求而设计, 为客户满意而执着

**BUSINESS PHILOSOPHY:** Design for customer demand, dedication for customer satisfaction



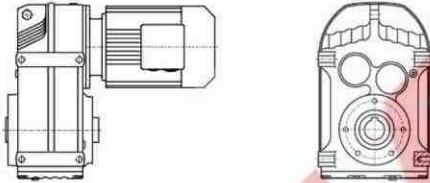
F系列减速机有以下设计方案：

F series gear units are available in the following designs:



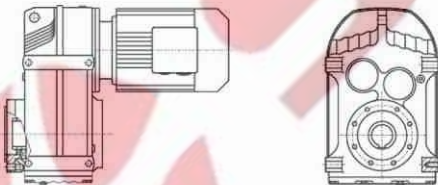
F..Y..

底脚轴伸式安装平行轴斜齿轮减速机  
Foot-mounted parallel shaft helical gear units with solid shaft



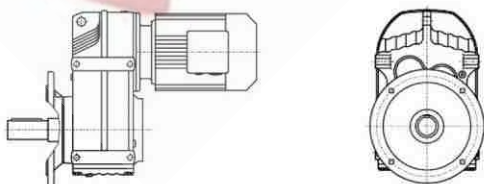
FA..Y..

空心轴安装平行轴斜齿轮减速机  
Parallel shaft helical gear units with hollow shaft



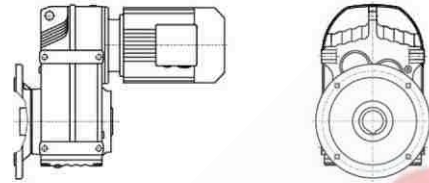
FAZ..Y..

小法兰空心轴安装平行轴斜齿轮减速机  
Short-flange-mounted parallel shaft helical gear units with hollow shaft



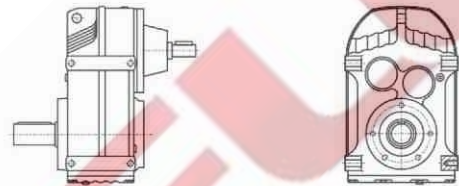
FF..Y..

法兰轴伸式安装平行轴斜齿轮减速机  
Flange-mounted parallel shaft helical gear units with solid shaft



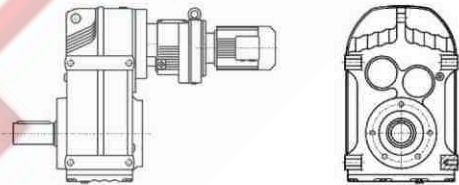
FAF..Y..

法兰空心轴安装平行轴斜齿轮减速机  
Flange-mounted parallel shaft helical gear units with hollow shaft



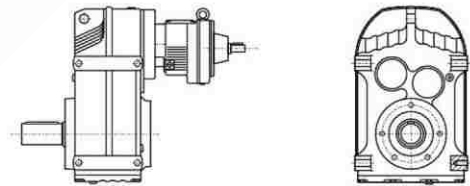
F ( FF, FA, FAF, FAZ ) S...

轴输入的平行轴斜齿轮减速机  
Shaft input parallel shaft helical gear units



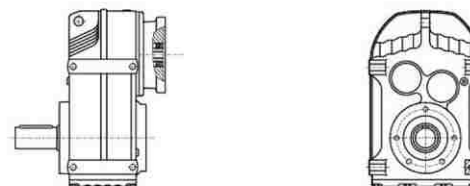
F ( FF, FA, FAF, FAZ ) ...R...Y...

组合式平行轴斜齿轮减速机  
Combinatorial parallel shaft helical gear units



F ( FF, FA, FAF, FAZ ) S...R...

轴输入的组式平行轴斜齿轮减速机  
Shaft input combinatorial parallel shaft helical gear units



F ( FF, FA, FAF, FAZ ) ...Y...

电机用户自配或配特殊电机时需加联接法兰  
When equipping the user's motor or the special one, the flange is required to be connected

F

型号与标记:

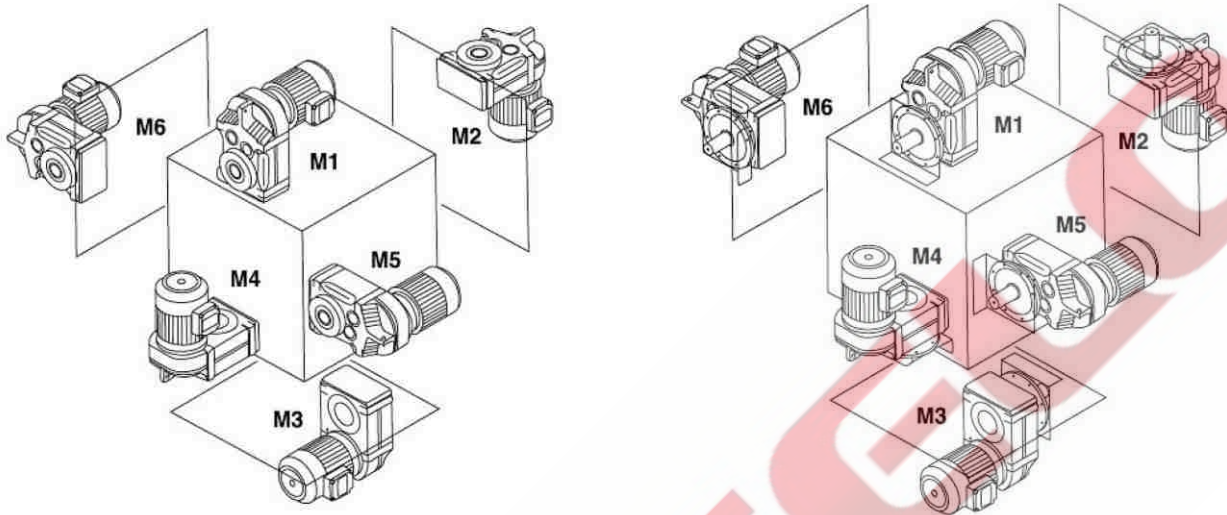
Type Designations:

|  |  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
|--|--|-------|-----|---|-------|---|-------|-----|--------|----|------------|-----|------------|-----|------------|----|------------|------|--------|--------------------|---|---------------------------------|-------|---------------------|---|-----------------------------------|---|------------------------------------|-----|--|----|--|-----|-----------------------------------|-----|--|----|---|------|--|--------------------|
| <p>F F 37-Y 0.55-4P-23.88-M1- 270°</p>   | <p>F F 37-Y 0.55-4P-23.88-M1- 270°</p>   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>减速机类型:</b><br/>平行轴斜齿轮减速机</p>   | <p><b>Gear units type:</b><br/>Parallel shaft helical gear units</p>                 |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>结构形式:</b></p> <table border="0"> <tr><td>普通轴伸式 (省略)</td><td></td></tr> <tr><td>轴装式</td><td>A</td></tr> <tr><td>轴伸法兰式</td><td>F</td></tr> <tr><td>轴装法兰式</td><td>AF</td></tr> <tr><td>轴装小法兰式</td><td>AZ</td></tr> <tr><td>普通轴伸式, 轴输入</td><td>S</td></tr> <tr><td>普通轴装式, 轴输入</td><td>AS</td></tr> <tr><td>轴伸法兰式, 轴输入</td><td>FS</td></tr> <tr><td>轴装法兰式, 轴输入</td><td>AFS</td></tr> <tr><td>*带锁紧盘式</td><td>H..(H, HF, HZ, HT)</td></tr> </table> | 普通轴伸式 (省略)   |       | 轴装式 | A | 轴伸法兰式 | F | 轴装法兰式 | AF  | 轴装小法兰式 | AZ | 普通轴伸式, 轴输入 | S   | 普通轴装式, 轴输入 | AS  | 轴伸法兰式, 轴输入 | FS | 轴装法兰式, 轴输入 | AFS  | *带锁紧盘式 | H..(H, HF, HZ, HT) | <p><b>Structure:</b></p> <table border="0"> <tr><td>Foot-mounted solid shaft output</td><td>(-)</td></tr> <tr><td>Hollow shaft output</td><td>A</td></tr> <tr><td>Flange-mounted solid shaft output</td><td>F</td></tr> <tr><td>Flange-mounted hollow shaft output</td><td>AF</td></tr> <tr><td>Short-flange-mounted hollow shaft output</td><td>AZ</td></tr> <tr><td>Foot-mounted solid shaft output, shaft input</td><td>S</td></tr> <tr><td>Hollow shaft output, shaft input</td><td>AS</td></tr> <tr><td>Flange-mounted solid shaft output, shaft input</td><td>FS</td></tr> <tr><td>Flange-mounted hollow shaft output, shaft input</td><td>AFS</td></tr> <tr><td>* Hollow shaft output with shrink disk</td><td>H..(H, HF, HZ, HT)</td></tr> </table> | Foot-mounted solid shaft output | (-)   | Hollow shaft output | A | Flange-mounted solid shaft output | F | Flange-mounted hollow shaft output | AF  | Short-flange-mounted hollow shaft output | AZ | Foot-mounted solid shaft output, shaft input | S   | Hollow shaft output, shaft input  | AS  | Flange-mounted solid shaft output, shaft input | FS | Flange-mounted hollow shaft output, shaft input | AFS  | * Hollow shaft output with shrink disk | H..(H, HF, HZ, HT) |
| 普通轴伸式 (省略)   |  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 轴装式  | A  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 轴伸法兰式  | F  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 轴装法兰式  | AF   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 轴装小法兰式   | AZ   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 普通轴伸式, 轴输入   | S  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 普通轴装式, 轴输入   | AS   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 轴伸法兰式, 轴输入   | FS   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 轴装法兰式, 轴输入   | AFS  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| *带锁紧盘式   | H..(H, HF, HZ, HT)   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Foot-mounted solid shaft output  | (-)  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Hollow shaft output  | A  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Flange-mounted solid shaft output  | F  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Flange-mounted hollow shaft output   | AF   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Short-flange-mounted hollow shaft output   | AZ   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Foot-mounted solid shaft output, shaft input   | S  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Hollow shaft output, shaft input   | AS   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Flange-mounted solid shaft output, shaft input   | FS   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Flange-mounted hollow shaft output, shaft input  | AFS  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| * Hollow shaft output with shrink disk   | H..(H, HF, HZ, HT)   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>规格:</b><br/>(见选型参数表)</p>   | <p><b>Size:</b><br/>(see selection table)</p>  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>电机代号:</b></p> <table border="0"> <tr><td>普通 (更新)</td><td>Y(Y2)</td></tr> <tr><td>防 爆</td><td>B</td></tr> <tr><td>直 流</td><td>Z</td></tr> <tr><td>制 动</td><td>YEJ</td></tr> <tr><td>多 速</td><td>D</td></tr> <tr><td>变 频</td><td>YVP</td></tr> <tr><td>电磁调速</td><td>YCT</td></tr> <tr><td>冶金起重</td><td>R</td></tr> <tr><td>变频制动</td><td>YVPJ</td></tr> <tr><td>辊 道</td><td>G</td></tr> </table>  | 普通 (更新)  | Y(Y2) | 防 爆 | B | 直 流   | Z | 制 动   | YEJ | 多 速    | D  | 变 频        | YVP | 电磁调速       | YCT | 冶金起重       | R  | 变频制动       | YVPJ | 辊 道    | G                  | <p><b>Motor code:</b></p> <table border="0"> <tr><td>Ordinary(renew)</td><td>Y(Y2)</td></tr> <tr><td>Flame-proof</td><td>B</td></tr> <tr><td>Direct current</td><td>Z</td></tr> <tr><td>Brake</td><td>YEJ</td></tr> <tr><td>Multi-speed</td><td>D</td></tr> <tr><td>Variable frequency</td><td>YVP</td></tr> <tr><td>Electromagnetism speed modulation</td><td>YCT</td></tr> <tr><td>Hoisting in metallurgy</td><td>R</td></tr> <tr><td>Variable frequency and brake</td><td>YVPJ</td></tr> <tr><td>Roller tables</td><td>G</td></tr> </table>  | Ordinary(renew)                 | Y(Y2) | Flame-proof         | B | Direct current                    | Z | Brake                              | YEJ | Multi-speed                              | D  | Variable frequency                           | YVP | Electromagnetism speed modulation | YCT | Hoisting in metallurgy                         | R  | Variable frequency and brake                    | YVPJ | Roller tables                          | G                  |
| 普通 (更新)  | Y(Y2)  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 防 爆  | B  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 直 流  | Z  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 制 动  | YEJ  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 多 速  | D  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 变 频  | YVP  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 电磁调速   | YCT  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 冶金起重   | R  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 变频制动   | YVPJ   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| 辊 道  | G  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Ordinary(renew)  | Y(Y2)  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Flame-proof  | B  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Direct current   | Z  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Brake  | YEJ  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Multi-speed  | D  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Variable frequency   | YVP  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Electromagnetism speed modulation  | YCT  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Hoisting in metallurgy   | R  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Variable frequency and brake   | YVPJ   |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| Roller tables  | G  |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>电机功率、极数:</b><br/>(见选型参数表)</p>  | <p><b>Motor power, pole :</b><br/>(see selection table)</p>                          |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>传动比:</b><br/>(见选型参数表)</p>  | <p><b>Ratio:</b><br/>(see selection table)</p>                                       |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>安装形式:</b><br/>M1、M2、M3、M4、M5、M6 (见第133页)</p>   | <p><b>Mounting position:</b><br/>M1、M2、M3、M4、M5、M6(see page 133)</p>                 |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |
| <p><b>电机接线盒位置:</b><br/>0°、90°、180°、270° (见第133页)</p>   | <p><b>Position of the motor thermal box:</b><br/>0°、90°、180°、270° (see page 133)</p> |       |     |   |       |   |       |     |        |    |            |     |            |     |            |    |            |      |        |                    |   |                                 |       |                     |   |                                   |   |                                    |     |  |    |  |     |                                   |     |  |    |   |      |  |                    |

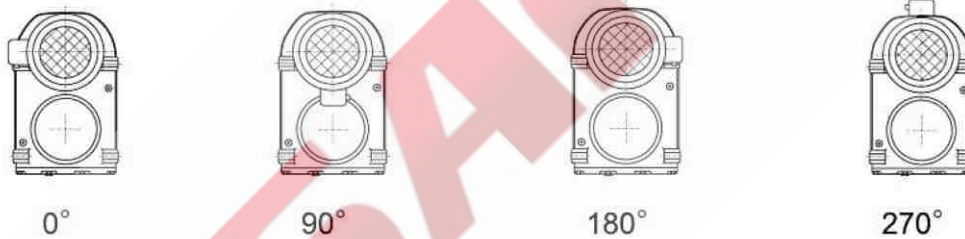
\*带锁紧盘式, 详见393-394页。

\*Hollow shaft output with shrink disk, see P393-394 for detail.

安装形式：  
Mounting position:



电机接线盒位置：  
Position of the motor thermal box



输入功率及许用转矩  
Input power rating and permissible torque

| 规格<br>Size                      | 37              | 47          | 57          | 67          | 77          | 87          | 97          | 107         | 127         | 157          |
|---------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 结构形式<br>Structure               | F FA FF FAF FAZ |             |             |             |             |             |             |             |             |              |
| 输入功率<br>Input power rating(kw)  | 0.18~3          | 0.18~3      | 0.18~5.5    | 0.18~5.5    | 0.37~11     | 0.75~22     | 1.1~30      | 2.2~45      | 7.5~90      | 11~200       |
| 传动比<br>Ratio                    | 3.81~128.51     | 5.06~189.39 | 5.18~199.70 | 4.21~228.99 | 4.30~281.71 | 4.12~270.68 | 4.68~280.76 | 6.20~254.40 | 4.63~172.17 | 11.92~267.43 |
| 许用转矩(N.m)<br>Permissible torque | 200             | 400         | 600         | 820         | 1500        | 3000        | 4300        | 7840        | 12000       | 18000        |

减速机重量  
Gear unit weight

| 规格<br>Size       | 37 | 47 | 57 | 67 | 77 | 87  | 97  | 107 | 127 | 157 |
|------------------|----|----|----|----|----|-----|-----|-----|-----|-----|
| 重量(kg)<br>Weight | 13 | 18 | 34 | 55 | 90 | 150 | 260 | 402 | 700 | 950 |

所注重量为平均值, 仅供参考  
The weights are mean values, only for reference.

F

润滑油量表  
Lubrication table

F...:

| 规格<br>Size | 润滑油量 (升) |      |      | Fill quantity in liters |      |     |
|------------|----------|------|------|-------------------------|------|-----|
|            | M1       | M2   | M3   | M4                      | M5   | M6  |
| F37        | 1        | 1.2  | 0.7  | 1.2                     | 1    | 1.1 |
| F47        | 1.5      | 1.8  | 1.1  | 1.9                     | 1.5  | 1.7 |
| F57        | 2.6      | 3.7  | 2.1  | 3.5                     | 2.8  | 2.9 |
| F67        | 2.7      | 3.8  | 1.9  | 3.8                     | 2.9  | 3.2 |
| F77        | 5        | 7.3  | 4.3  | 8                       | 6    | 6.3 |
| F87        | 10       | 13.0 | 7.7  | 13.8                    | 10.8 | 11  |
| F97        | 18.5     | 22.5 | 12.6 | 25.2                    | 18.5 | 20  |
| F107       | 24.5     | 32   | 19.5 | 37.5                    | 27   | 27  |
| F127       | 40.5     | 55   | 34   | 61                      | 46.5 | 47  |
| F157       | 69       | 104  | 63   | 105                     | 86   | 78  |

FF...:

| 规格<br>Size | 润滑油量 (升) |      |      | Fill quantity in liters |      |      |
|------------|----------|------|------|-------------------------|------|------|
|            | M1       | M2   | M3   | M4                      | M5   | M6   |
| FF37       | 1        | 1.2  | 0.7  | 1.3                     | 1    | 1.1  |
| FF47       | 1.6      | 1.9  | 1.1  | 1.9                     | 1.5  | 1.7  |
| FF57       | 2.8      | 3.8  | 2.1  | 3.7                     | 2.9  | 3    |
| FF67       | 2.7      | 3.8  | 1.9  | 3.8                     | 2.9  | 3.2  |
| FF77       | 5.1      | 7.3  | 4.3  | 8.1                     | 6    | 6.3  |
| FF87       | 10.3     | 13.2 | 7.8  | 14.1                    | 11   | 11.2 |
| FF97       | 19       | 22.5 | 12.6 | 25.5                    | 18.9 | 20.5 |
| FF107      | 25.5     | 32   | 19.5 | 38.5                    | 27.5 | 28   |
| FF127      | 41.5     | 56   | 34   | 63                      | 46.5 | 49   |
| FF157      | 72       | 105  | 64   | 106                     | 87   | 79   |

FA... FAF... FAZ...:

| 规格<br>Size | 润滑油量 (升) |      |      | Fill quantity in liters |      |      |
|------------|----------|------|------|-------------------------|------|------|
|            | M1       | M2   | M3   | M4                      | M5   | M6   |
| F..37      | 1        | 1.2  | 0.7  | 1.2                     | 1    | 1.1  |
| F..47      | 1.5      | 1.8  | 1.1  | 1.9                     | 1.5  | 1.7  |
| F..57      | 2.7      | 3.8  | 2.1  | 3.6                     | 2.9  | 3    |
| F..67      | 2.7      | 3.8  | 1.9  | 3.8                     | 2.9  | 3.2  |
| F..77      | 5        | 7.3  | 4.3  | 8                       | 6    | 6.3  |
| F..87      | 10       | 13.0 | 7.7  | 13.8                    | 10.8 | 11   |
| F..97      | 18.5     | 22.5 | 12.6 | 25.0                    | 18.5 | 20   |
| F..107     | 24.5     | 32   | 19.5 | 37.5                    | 27   | 27   |
| F..127     | 39       | 55   | 34   | 61                      | 45   | 46.5 |
| F..157     | 68       | 103  | 62   | 104                     | 85   | 77   |

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>0.18kW</b>                 |                             |                   |  |                     |                 | <b>0.18kW</b>                 |                             |                   |  |                     |                 |
| 0.11                          | 14324                       | 13014             | 0.79                                     |                     |                 | 2.5                           | 616                         | 560               | 0.92                                     |                     |                 |
| 0.12                          | 12930                       | 11748             | 0.87                                     | FA 127R77           | 4               | 2.7                           | 558                         | 507               | 1.01                                     |                     |                 |
| 0.14                          | 11305                       | 10271             | 1.00                                     | FAF127R77           | 4               | 3.1                           | 499                         | 453               | 1.13                                     |                     |                 |
| 0.16                          | 9797                        | 8901              | 1.15                                     | F 127R77            | 4               | 3.3                           | 469                         | 426               | 1.20                                     | FA 57R37            | 4               |
| 0.18                          | 8478                        | 7703              | 1.33                                     | FF 127R77           | 4               | 3.6                           | 426                         | 387               | 1.32                                     | FAF57R37            | 4               |
| 0.21                          | 7449                        | 6768              | 1.51                                     |                     |                 | 4.2                           | 363                         | 330               | 1.55                                     | F 57R37             | 4               |
|                               |                             |                   |  |                     |                 | 4.7                           | 328                         | 298               | 1.72                                     | FF 57R37            | 4               |
| 0.16                          | 9408                        | 8548              | 0.78                                     |                     |                 | 5.3                           | 288                         | 262               | 1.96                                     |                     |                 |
| 0.18                          | 8448                        | 7675              | 0.87                                     |                     |                 | 6.2                           | 249                         | 226               | 2.3                                      |                     |                 |
| 0.21                          | 7281                        | 6615              | 1.01                                     |                     |                 | 7.0                           | 220                         | 200               | 2.6                                      |                     |                 |
| 0.24                          | 6406                        | 5820              | 1.15                                     | FA 107R77           | 4               | 4.1                           | 371                         | 337               | 1.01                                     |                     |                 |
| 0.27                          | 5749                        | 5223              | 1.28                                     | FAF107R77           | 4               | 4.6                           | 331                         | 301               | 1.13                                     |                     |                 |
| 0.30                          | 5027                        | 4567              | 1.47                                     | F 107R77            | 4               | 4.7                           | 322                         | 293               | 1.17                                     |                     |                 |
| 0.39                          | 3875                        | 3521              | 1.90                                     | FF 107R77           | 4               | 4.9                           | 314                         | 285               | 1.20                                     | FA 47R17            | 4               |
| 0.46                          | 3343                        | 3037              | 2.2                                      |                     |                 | 6.0                           | 253                         | 230               | 1.49                                     | FAF47R17            | 4               |
| 0.50                          | 3033                        | 2756              | 2.4                                      |                     |                 | 6.1                           | 250                         | 227               | 1.50                                     | F 47R17             | 4               |
| 0.59                          | 2607                        | 2369              | 2.8                                      |                     |                 | 6.4                           | 238                         | 216               | 1.58                                     | FF 47R17            | 4               |
| 0.67                          | 2276                        | 2068              | 3.2                                      |                     |                 | 7.4                           | 207                         | 188               | 1.82                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 7.9                           | 194                         | 176               | 1.94                                     |                     |                 |
| 0.32                          | 4815                        | 4375              | 0.84                                     |                     |                 | 8.2                           | 187                         | 170               | 1.00                                     | FA 37R17            | 4               |
| 0.35                          | 4343                        | 3946              | 0.9                                      |                     |                 | 8.3                           | 185                         | 168               | 1.02                                     | FAF37R17            | 4               |
| 0.41                          | 3743                        | 3401              | 1.1                                      |                     |                 | 10                            | 146                         | 133               | 1.28                                     | F 37R17             | 4               |
| 0.47                          | 3246                        | 2949              | 1.2                                      | FA 97R57            | 4               | 11                            | 142                         | 129               | 1.32                                     | FF 37R17            | 4               |
| 0.54                          | 2851                        | 2590              | 1.4                                      | FAF97R57            | 4               |                               |                             |                   |  |                     |                 |
| 0.61                          | 2495                        | 2267              | 1.6                                      | F 97R57             | 4               | 3.0                           | 536                         | 281.71            | 2.6                                      | FA 77               | 6               |
| 0.70                          | 2189                        | 1989              | 1.8                                      | FF 97R57            | 4               | 3.2                           | 500                         | 262.93            | 2.8                                      | FAF77               | 6               |
| 0.80                          | 1914                        | 1739              | 2.1                                      |                     |                 | 3.8                           | 429                         | 225.79            | 3.3                                      | F 77                | 6               |
| 0.90                          | 1697                        | 1542              | 2.4                                      |                     |                 |                               |                             |                   |  | FF 77               | 6               |
| 1.0                           | 1475                        | 1340              | 2.7                                      |                     |                 | 3.7                           | 435                         | 228.99            | 1.77                                     | FA 67               | 6               |
| 1.2                           | 1301                        | 1182              | 3.1                                      |                     |                 | 4.4                           | 371                         | 195.39            | 2.1                                      | FAF67               | 6               |
|                               |                             |                   |  |                     |                 | 4.4                           | 371                         | 195.39            | 2.1                                      | F 67                | 6               |
| 0.48                          | 3171                        | 2881              | 0.9                                      |                     |                 | 5.0                           | 325                         | 170.85            | 2.4                                      | FF 67               | 6               |
| 0.54                          | 2834                        | 2575              | 1.0                                      | FA 87R57            | 4               |                               |                             |                   |  |                     |                 |
| 0.63                          | 2420                        | 2199              | 1.2                                      | FAF87R57            | 4               | 6.1                           | 266                         | 228.99            | 2.9                                      | FA 67               | 4               |
| 0.72                          | 2124                        | 1930              | 1.3                                      | F 87R57             | 4               | 7.1                           | 227                         | 195.39            | 3.4                                      | FAF67               | 4               |
| 0.81                          | 1881                        | 1709              | 1.5                                      | FF 87R57            | 4               | 8.1                           | 199                         | 170.85            | 3.9                                      | F 67                | 4               |
| 0.93                          | 1643                        | 1493              | 1.7                                      |                     |                 |                               |                             |                   |  | FF 67               | 4               |
| 1.1                           | 1431                        | 1300              | 2.0                                      |                     |                 | 4.3                           | 380                         | 199.70            | 1.49                                     |                     |                 |
| 1.2                           | 1264                        | 1148              | 2.2                                      |                     |                 | 4.6                           | 349                         | 183.60            | 1.62                                     | FA 57               | 6               |
| 1.4                           | 1112                        | 1010              | 2.5                                      |                     |                 | 5.4                           | 299                         | 157.09            | 1.89                                     | FAF57               | 6               |
| 1.6                           | 976                         | 887               | 2.9                                      |                     |                 | 6.2                           | 259                         | 136.16            | 2.2                                      | F 57                | 6               |
| 1.8                           | 859                         | 780               | 3.3                                      |                     |                 | 6.7                           | 242                         | 127.27            | 2.3                                      | FF 57               | 6               |
|                               |                             |                   |  |                     |                 | 7.7                           | 209                         | 110.01            | 2.7                                      |                     |                 |
| 0.8                           | 1902                        | 1728              | 0.7                                      |                     |                 | 7.0                           | 232                         | 199.70            | 2.4                                      |                     |                 |
| 0.9                           | 1698                        | 1543              | 0.8                                      |                     |                 | 7.6                           | 213                         | 183.60            | 2.6                                      | FA 57               | 4               |
| 1.0                           | 1490                        | 1354              | 0.9                                      | FA 77R37            | 4               | 8.8                           | 183                         | 157.09            | 3.1                                      | FAF57               | 4               |
| 1.2                           | 1316                        | 1196              | 1.1                                      | FAF77R37            | 4               | 10                            | 158                         | 136.16            | 3.6                                      | F 57                | 4               |
| 1.3                           | 1156                        | 1050              | 1.2                                      | F 77R37             | 4               | 11                            | 148                         | 127.27            | 3.8                                      | FF 57               | 4               |
| 1.5                           | 998                         | 907               | 1.4                                      | FF 77R37            | 4               |                               |                             |                   |  |                     |                 |
| 1.7                           | 892                         | 810               | 1.6                                      |                     |                 | 4.5                           | 360                         | 189.39            | 1.0                                      | FA 47               | 6               |
| 2.0                           | 781                         | 710               | 1.8                                      |                     |                 | 4.9                           | 331                         | 174.13            | 1.1                                      | FAF47               | 6               |
| 2.3                           | 660                         | 600               | 2.1                                      |                     |                 | 5.7                           | 283                         | 148.98            | 1.3                                      | F 47                | 6               |
|                               |                             |                   |  |                     |                 | 6.6                           | 245                         | 129.14            | 1.5                                      | FF 47               | 6               |
| 1.6                           | 944                         | 858               | 0.82                                     |                     |                 | 7.0                           | 229                         | 120.70            | 2.5                                      |                     |                 |
| 1.9                           | 812                         | 738               | 0.95                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 2.2                           | 689                         | 626               | 1.12                                     |                     |                 | 7.3                           | 220                         | 189.39            | 1.71                                     | FA 47               | 4               |
| 2.4                           | 630                         | 572               | 1.22                                     | FA 67R37            | 4               | 8.0                           | 202                         | 174.13            | 1.86                                     | FAF47               | 4               |
| 2.8                           | 550                         | 500               | 1.40                                     | FAF67R37            | 4               | 9.3                           | 173                         | 148.98            | 2.2                                      | F 47                | 4               |
| 2.8                           | 547                         | 497               | 1.41                                     | F 67R37             | 4               | 11                            | 150                         | 129.14            | 2.5                                      | FF 47               | 4               |
| 3.1                           | 500                         | 454               | 1.54                                     | FF 67R37            | 4               | 12                            | 140                         | 120.70            | 2.7                                      |                     |                 |
| 3.3                           | 470                         | 427               | 1.64                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 3.5                           | 431                         | 392               | 1.79                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 3.8                           | 403                         | 366               | 1.91                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 4.2                           | 367                         | 333               | 2.1                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 4.7                           | 327                         | 297               | 2.4                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 5.3                           | 287                         | 261               | 2.7                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 5.8                           | 262                         | 238               | 2.9                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 7.0                           | 220                         | 200               | 3.5                                      |                     |                 |                               |                             |                   |  |                     |                 |

F

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>0.18kW</b>                 |                             |                   |  |                     |                 | <b>0.25kW</b>                 |                             |                   |  |                     |                 |
| 7.2                           | 224                         | 117.88            | 0.84                                     |                     |                 | 0.72                          | 2950                        | 1930              | 1.0                                      |                     |                 |
| 8.5                           | 191                         | 100.36            | 0.99                                     | FA 37               | 6               | 0.81                          | 2613                        | 1709              | 1.1                                      |                     |                 |
| 9.8                           | 164                         | 86.53             | 1.14                                     | FAF37               | 6               | 0.93                          | 2282                        | 1493              | 1.2                                      |                     |                 |
| 11                            | 153                         | 80.65             | 1.23                                     | F 37                | 6               | 1.1                           | 1987                        | 1300              | 1.4                                      | FA 87R57            | 4               |
| 12                            | 134                         | 70.50             | 1.40                                     | FF 37               | 6               | 1.2                           | 1755                        | 1148              | 1.6                                      | FAF87R57            | 4               |
| 11                            | 149                         | 128.51            | 1.26                                     |                     |                 | 1.4                           | 1544                        | 1010              | 1.8                                      | F 87R57             | 4               |
| 12                            | 137                         | 117.88            | 1.37                                     |                     |                 | 1.6                           | 1356                        | 887               | 2.1                                      | FF 87R57            | 4               |
| 14                            | 117                         | 100.36            | 1.61                                     |                     |                 | 1.8                           | 1192                        | 780               | 2.4                                      |                     |                 |
| 16                            | 101                         | 86.53             | 1.87                                     |                     |                 | 2.1                           | 1030                        | 674               | 2.7                                      |                     |                 |
| 17                            | 94                          | 80.65             | 2.0                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 20                            | 82                          | 70.50             | 2.3                                      |                     |                 | 1.3                           | 1605                        | 1050              | 0.88                                     |                     |                 |
| 21                            | 77                          | 66.09             | 2.4                                      |                     |                 | 1.5                           | 1387                        | 907               | 1.02                                     |                     |                 |
| 24                            | 68                          | 58.32             | 2.8                                      |                     |                 | 1.7                           | 1238                        | 810               | 1.14                                     | FA 77R37            | 4               |
| 25                            | 63                          | 54.54             | 3.0                                      |                     |                 | 2.0                           | 1085                        | 710               | 1.30                                     | FAF77R37            | 4               |
| 27                            | 60                          | 51.70             | 3.1                                      |                     |                 | 2.3                           | 917                         | 600               | 1.54                                     | F 77R37             | 4               |
| 30                            | 55                          | 47.02             | 3.4                                      |                     |                 | 2.6                           | 803                         | 525               | 1.76                                     | FF 77R37            | 4               |
| 32                            | 51                          | 43.83             | 3.7                                      |                     |                 | 3.0                           | 717                         | 469               | 1.97                                     |                     |                 |
| 36                            | 45                          | 38.31             | 4.2                                      |                     |                 | 3.4                           | 630                         | 412               | 2.2                                      |                     |                 |
| 39                            | 42                          | 35.91             | 4.5                                      | FA 37               | 4               | 2.2                           | 980                         | 641               | 0.79                                     |                     |                 |
| 44                            | 37                          | 31.69             | 5.1                                      | FAF37               | 4               | 2.4                           | 874                         | 572               | 0.88                                     |                     |                 |
| 49                            | 33                          | 28.09             | 5.8                                      | F 37                | 4               | 2.7                           | 778                         | 509               | 0.99                                     |                     |                 |
| 58                            | 28                          | 23.88             | 6.8                                      | FF 37               | 4               | 2.8                           | 764                         | 500               | 1.01                                     | FA 67R37            | 4               |
| 59                            | 27                          | 23.63             | 6.8                                      |                     |                 | 3.1                           | 694                         | 454               | 1.11                                     | FAF67R37            | 4               |
| 68                            | 24                          | 20.57             | 7.9                                      |                     |                 | 3.2                           | 668                         | 437               | 1.15                                     | F 67R37             | 4               |
| 72                            | 22                          | 19.27             | 8.4                                      |                     |                 | 3.5                           | 599                         | 392               | 1.29                                     | FF 67R37            | 4               |
| 82                            | 20                          | 17.03             | 9.5                                      |                     |                 | 4.2                           | 509                         | 333               | 1.51                                     |                     |                 |
| 88                            | 18                          | 15.81             | 10.2                                     |                     |                 | 4.7                           | 454                         | 297               | 1.70                                     |                     |                 |
| 97                            | 17                          | 14.33             | 11                                       |                     |                 | 5.3                           | 399                         | 261               | 1.93                                     |                     |                 |
| 108                           | 15                          | 12.87             | 13                                       |                     |                 | 5.8                           | 364                         | 238               | 2.1                                      |                     |                 |
| 125                           | 13                          | 11.08             | 14                                       |                     |                 |                               |                             |                   |  |                     |                 |
| 133                           | 12                          | 10.42             | 14                                       |                     |                 | 3.6                           | 592                         | 387               | 0.95                                     |                     |                 |
| 155                           | 10                          | 8.97              | 16                                       |                     |                 | 4.2                           | 504                         | 330               | 0.97                                     |                     |                 |
| 185                           | 8.7                         | 7.51              | 16                                       |                     |                 | 5.6                           | 381                         | 249               | 1.11                                     |                     |                 |
| 204                           | 7.9                         | 6.81              | 17                                       |                     |                 | 3.6                           | 584                         | 382               | 1.12                                     | FA 57R37            | 4               |
| 227                           | 7.1                         | 6.11              | 18                                       |                     |                 | 4.2                           | 505                         | 330               | 1.21                                     | FAF57R37            | 4               |
| 264                           | 6.1                         | 5.27              | 19                                       |                     |                 | 4.7                           | 456                         | 298               | 1.24                                     | F 57R37             | 4               |
| 281                           | 5.8                         | 4.95              | 20                                       |                     |                 | 5.3                           | 401                         | 262               | 1.48                                     | FF 57R37            | 4               |
| 326                           | 5.0                         | 4.26              | 21                                       |                     |                 | 6.2                           | 345                         | 226               | 1.63                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 7.0                           | 306                         | 200               | 1.84                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 8.4                           | 254                         | 166               | 2.2                                      |                     |                 |
| <b>0.25kW</b>                 |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 0.16                          | 13607                       | 8901              | 0.83                                     |                     |                 | 6.0                           | 352                         | 230               | 1.07                                     |                     |                 |
| 0.18                          | 11775                       | 7703              | 0.96                                     | FA 127R77           | 4               | 6.1                           | 347                         | 227               | 1.08                                     |                     |                 |
| 0.21                          | 10346                       | 6768              | 1.09                                     | FAF127R77           | 4               | 6.4                           | 330                         | 216               | 1.14                                     |                     |                 |
| 0.23                          | 9131                        | 5973              | 1.24                                     | F 127R77            | 4               | 7.2                           | 294                         | 192               | 1.28                                     | FA 47R17            | 4               |
| 0.27                          | 7760                        | 5076              | 1.45                                     | FF 127R77           | 4               | 7.4                           | 287                         | 188               | 1.31                                     | FAF47R17            | 4               |
| 0.31                          | 6827                        | 4466              | 1.7                                      |                     |                 | 7.9                           | 269                         | 176               | 1.40                                     | F 47R17             | 4               |
| 0.24                          | 8897                        | 5820              | 0.83                                     |                     |                 | 8.0                           | 264                         | 173               | 1.42                                     | FF 47R17            | 4               |
| 0.27                          | 7984                        | 5223              | 0.92                                     |                     |                 | 9.4                           | 226                         | 148               | 1.66                                     |                     |                 |
| 0.30                          | 6982                        | 4567              | 1.06                                     |                     |                 | 11                            | 199                         | 130               | 1.89                                     |                     |                 |
| 0.40                          | 5262                        | 3442              | 1.40                                     | FA 107R77           | 4               |                               |                             |                   |  |                     |                 |
| 0.46                          | 4643                        | 3037              | 1.59                                     | FAF107R77           | 4               | 10                            | 203                         | 133               | 0.92                                     | FA 37R17            | 4               |
| 0.50                          | 4213                        | 2756              | 1.75                                     | F 107R77            | 4               | 11                            | 197                         | 129               | 0.95                                     | FAF37R17            | 4               |
| 0.59                          | 3621                        | 2369              | 2.0                                      | FF 107R77           | 4               | 12                            | 180                         | 118               | 1.04                                     | F 37R17             | 4               |
| 0.67                          | 3161                        | 2068              | 2.3                                      |                     |                 | 14                            | 150                         | 98                | 1.25                                     | FF 37R17            | 4               |
| 0.87                          | 2441                        | 1597              | 3.0                                      |                     |                 | 16                            | 133                         | 87                | 1.41                                     |                     |                 |
| 0.99                          | 2142                        | 1401              | 3.4                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 0.47                          | 4508                        | 2949              | 0.90                                     |                     |                 | 3.0                           | 744                         | 281.71            | 1.9                                      | FA 77               | 6               |
| 0.54                          | 3959                        | 2590              | 1.02                                     |                     |                 | 3.2                           | 694                         | 262.93            | 2.0                                      | FAF77               | 6               |
| 0.61                          | 3466                        | 2267              | 1.17                                     | FA 97R57            | 4               | 3.8                           | 596                         | 225.79            | 2.4                                      | F 77                | 6               |
| 0.63                          | 3362                        | 2199              | 1.20                                     | FAF97R57            | 4               | 4.3                           | 524                         | 198.31            | 2.7                                      | FF 77               | 6               |
| 0.80                          | 2658                        | 1739              | 1.52                                     | F 97R57             | 4               | 4.5                           | 497                         | 188.40            | 2.8                                      |                     |                 |
| 0.90                          | 2357                        | 1542              | 1.71                                     | FF 97R57            | 4               |                               |                             |                   |  |                     |                 |
| 1.0                           | 2032                        | 1329              | 2.0                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 1.2                           | 1807                        | 1182              | 2.2                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 1.3                           | 1578                        | 1032              | 2.6                                      |                     |                 |                               |                             |                   |  |                     |                 |

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>0.25kW</b>                 |                             |                   |  |                     |                 | <b>0.25kW</b>                 |                             |                   |  |                     |                 |
| 3.7                           | 605                         | 228.99            | 1.3                                      | FA 67               | 6               | 204                           | 11                          | 6.81              | 12                                       | FA 37               | 4               |
| 4.4                           | 516                         | 195.39            | 1.5                                      | FAF67               | 6               | 227                           | 10                          | 6.11              | 13                                       | FAF37               | 4               |
| 5.0                           | 451                         | 170.85            | 1.7                                      | F 67                | 6               | 264                           | 8.5                         | 5.27              | 14                                       | F 37                | 4               |
| 5.2                           | 429                         | 162.31            | 1.8                                      | FF 67               | 6               | 281                           | 8.0                         | 4.95              | 14                                       | FF 37               | 4               |
| 6.0                           | 376                         | 142.40            | 2.1                                      |                     |                 | 326                           | 6.9                         | 4.26              | 15                                       |                     |                 |
| 6.1                           | 370                         | 228.99            | 2.1                                      | FA 67               | 4               | <b>0.37kW</b>                 |                             |                   |  |                     |                 |
| 7.1                           | 315                         | 195.39            | 2.4                                      | FAF67               | 4               | 0.21                          | 15312                       | 6768              | 0.74                                     |                     |                 |
| 8.1                           | 276                         | 170.85            | 2.8                                      | F 67                | 4               | 0.23                          | 13514                       | 5973              | 0.83                                     | FA 127R77           | 4               |
| 8.6                           | 262                         | 162.31            | 2.9                                      | FF 67               | 4               | 0.27                          | 11484                       | 5076              | 0.98                                     | FAF127R77           | 4               |
| 9.8                           | 230                         | 142.40            | 3.4                                      |                     |                 | 0.31                          | 10104                       | 4466              | 1.12                                     | F 127R77            | 4               |
| 4.3                           | 527                         | 199.70            | 1.07                                     |                     |                 | 0.36                          | 8751                        | 3868              | 1.29                                     | FF 127R77           | 4               |
| 4.6                           | 485                         | 183.60            | 1.16                                     | FA 57               | 6               | 0.41                          | 7699                        | 3403              | 1.47                                     |                     |                 |
| 5.4                           | 415                         | 157.09            | 1.4                                      | FAF57               | 6               | 0.47                          | 6758                        | 2987              | 1.67                                     |                     |                 |
| 6.2                           | 360                         | 136.16            | 1.6                                      | F 57                | 6               | 0.46                          | 6871                        | 3037              | 1.07                                     | FA 107R77           | 4               |
| 6.7                           | 336                         | 127.27            | 1.7                                      | FF 57               | 6               | 0.50                          | 6235                        | 2756              | 1.16                                     | FAF107R77           | 4               |
| 7.7                           | 290                         | 110.01            | 1.9                                      |                     |                 | 0.59                          | 5360                        | 2369              | 1.35                                     | F 107R77            | 4               |
| 7.0                           | 322                         | 199.70            | 1.7                                      |                     |                 | 0.67                          | 4679                        | 2068              | 1.54                                     | FF 107R77           | 4               |
| 7.6                           | 296                         | 183.60            | 1.9                                      | FA 57               | 4               | 0.87                          | 3613                        | 1597              | 2.0                                      |                     |                 |
| 8.8                           | 254                         | 157.09            | 2.2                                      | FAF57               | 4               | 0.61                          | 5129                        | 2267              | 0.79                                     |                     |                 |
| 10                            | 220                         | 136.16            | 2.6                                      | F 57                | 4               | 0.70                          | 4505                        | 1991              | 0.90                                     |                     |                 |
| 11                            | 205                         | 127.27            | 2.7                                      | FF 57               | 4               | 0.80                          | 3934                        | 1739              | 1.03                                     | FA 97R57            | 4               |
| 13                            | 178                         | 110.01            | 3.2                                      |                     |                 | 0.90                          | 3489                        | 1542              | 1.16                                     | FAF97R57            | 4               |
| 5.7                           | 393                         | 148.98            | 1.0                                      | FA 47               | 6               | 1.0                           | 3032                        | 1340              | 1.3                                      | F 97R57             | 4               |
| 6.6                           | 341                         | 129.14            | 1.1                                      | FAF47               | 6               | 1.2                           | 2674                        | 1182              | 1.5                                      | FF 97R57            | 4               |
| 7.0                           | 319                         | 120.70            | 1.2                                      | F 47                | 6               | 1.3                           | 2335                        | 1032              | 1.7                                      |                     |                 |
| 8.1                           | 275                         | 104.33            | 1.4                                      | FF 47               | 6               | 1.5                           | 2052                        | 907               | 2.0                                      |                     |                 |
| 7.3                           | 306                         | 189.39            | 1.2                                      |                     |                 | 1.1                           | 2941                        | 1300              | 1.0                                      |                     |                 |
| 8.0                           | 281                         | 174.13            | 1.3                                      | FA 47               | 4               | 1.2                           | 2597                        | 1148              | 1.1                                      |                     |                 |
| 9.3                           | 241                         | 148.98            | 1.6                                      | FAF47               | 4               | 1.4                           | 2285                        | 1010              | 1.2                                      | FA 87R57            | 4               |
| 11                            | 209                         | 129.14            | 1.8                                      | F 47                | 4               | 1.6                           | 2007                        | 887               | 1.4                                      | FAF87R57            | 4               |
| 12                            | 195                         | 120.70            | 1.9                                      | FF 47               | 4               | 1.8                           | 1765                        | 780               | 1.6                                      | F 87R57             | 4               |
| 13                            | 168                         | 104.33            | 2.2                                      |                     |                 | 2.1                           | 1525                        | 674               | 1.8                                      | FF 87R57            | 4               |
| 16                            | 143                         | 88.65             | 2.6                                      |                     |                 | 2.3                           | 1378                        | 609               | 2.0                                      |                     |                 |
| 11                            | 207                         | 128.51            | 0.9                                      |                     |                 | 2.7                           | 1165                        | 515               | 2.4                                      |                     |                 |
| 12                            | 190                         | 117.88            | 1.0                                      |                     |                 | 3.1                           | 1023                        | 452               | 2.8                                      |                     |                 |
| 14                            | 162                         | 100.36            | 1.2                                      |                     |                 | 1.7                           | 1833                        | 810               | 0.77                                     |                     |                 |
| 16                            | 140                         | 86.53             | 1.3                                      |                     |                 | 2.0                           | 1606                        | 710               | 0.88                                     |                     |                 |
| 17                            | 130                         | 80.65             | 1.4                                      |                     |                 | 2.3                           | 1357                        | 600               | 1.04                                     | FA 77R37            | 4               |
| 20                            | 114                         | 70.50             | 1.7                                      |                     |                 | 2.6                           | 1188                        | 525               | 1.19                                     | FAF77R37            | 4               |
| 21                            | 107                         | 66.09             | 1.8                                      |                     |                 | 3.0                           | 1061                        | 469               | 1.33                                     | F 77R37             | 4               |
| 24                            | 94                          | 58.32             | 2.0                                      |                     |                 | 3.4                           | 932                         | 412               | 1.51                                     | FF 77R37            | 4               |
| 25                            | 88                          | 54.54             | 2.1                                      |                     |                 | 3.9                           | 808                         | 357               | 1.75                                     |                     |                 |
| 27                            | 83                          | 51.70             | 2.3                                      |                     |                 | 4.4                           | 710                         | 314               | 1.98                                     |                     |                 |
| 30                            | 76                          | 47.02             | 2.5                                      |                     |                 | 3.3                           | 966                         | 427               | 0.80                                     |                     |                 |
| 32                            | 71                          | 43.83             | 2.7                                      |                     |                 | 3.8                           | 828                         | 366               | 0.93                                     | FA 67R37            | 4               |
| 36                            | 62                          | 38.31             | 3.0                                      | FA 37               | 4               | 4.3                           | 731                         | 323               | 1.05                                     | FAF67R37            | 4               |
| 39                            | 58                          | 35.91             | 3.2                                      | FAF37               | 4               | 4.8                           | 656                         | 290               | 1.17                                     | F 67R37             | 4               |
| 44                            | 51                          | 31.69             | 3.7                                      | F 37                | 4               | 5.4                           | 581                         | 257               | 1.33                                     | FF 67R37            | 4               |
| 49                            | 45                          | 28.09             | 4.1                                      | FF 37               | 4               | 6.3                           | 498                         | 220               | 1.55                                     |                     |                 |
| 58                            | 39                          | 23.88             | 4.9                                      |                     |                 | 5.3                           | 593                         | 262               | 0.95                                     |                     |                 |
| 59                            | 38                          | 23.63             | 4.9                                      |                     |                 | 5.6                           | 563                         | 249               | 1.00                                     |                     |                 |
| 68                            | 33                          | 20.57             | 5.7                                      |                     |                 | 6.2                           | 511                         | 226               | 1.10                                     | FA 57R37            | 4               |
| 72                            | 31                          | 19.27             | 6.0                                      |                     |                 | 7.0                           | 452                         | 200               | 1.25                                     | FAF57R37            | 4               |
| 82                            | 27                          | 17.03             | 6.8                                      |                     |                 | 7.1                           | 446                         | 197               | 1.27                                     | F 57R37             | 4               |
| 88                            | 26                          | 15.81             | 7.4                                      |                     |                 | 7.7                           | 410                         | 181               | 1.38                                     | FF 57R37            | 4               |
| 97                            | 23                          | 14.33             | 8.1                                      |                     |                 | 8.4                           | 376                         | 166               | 1.50                                     |                     |                 |
| 108                           | 21                          | 12.87             | 9.0                                      |                     |                 | 9.1                           | 344                         | 152               | 1.64                                     |                     |                 |
| 125                           | 18                          | 11.08             | 10                                       |                     |                 | 10                            | 303                         | 134               | 1.86                                     |                     |                 |
| 133                           | 17                          | 10.42             | 10                                       |                     |                 |                               |                             |                   |  |                     |                 |
| 155                           | 14                          | 8.97              | 11                                       |                     |                 |                               |                             |                   |  |                     |                 |
| 185                           | 12                          | 7.51              | 11                                       |                     |                 |                               |                             |                   |  |                     |                 |

F



选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>0.37kW</b>                 |                             |                   |  |                     |                 | <b>0.37kW</b>                 |                             |                   |  |                     |                 |
| 8.0                           | 391                         | 173               | 0.96                                     | FA 47R17            | 4               | 32                            | 105                         | 43.83             | 1.80                                     |                     |                 |
| 9.5                           | 330                         | 146               | 1.14                                     | FAF47R17            | 4               | 36                            | 92                          | 38.31             | 2.1                                      |                     |                 |
| 11                            | 292                         | 129               | 1.29                                     | F 47R17             | 4               | 39                            | 86                          | 35.91             | 2.2                                      |                     |                 |
|                               |                             |                   |  | FF 47R17            | 4               | 44                            | 76                          | 31.69             | 2.5                                      |                     |                 |
| 2.4                           | 1400                        | 271.92            | 2.0                                      | FA 87               | 8               | 49                            | 67                          | 28.09             | 2.8                                      |                     |                 |
| 2.5                           | 1313                        | 254.93            | 2.1                                      | FAF87               | 8               | 58                            | 57                          | 23.88             | 3.3                                      |                     |                 |
| 2.8                           | 1177                        | 228.57            | 2.4                                      | F 87                | 8               | 59                            | 56                          | 23.63             | 3.3                                      |                     |                 |
| 3.3                           | 1014                        | 196.85            | 2.8                                      | FF 87               | 8               | 68                            | 49                          | 20.57             | 3.8                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 72                            | 46                          | 19.27             | 4.1                                      |                     |                 |
| 3.1                           | 1063                        | 271.92            | 2.7                                      | FA 87               | 6               | 82                            | 41                          | 17.03             | 4.6                                      | FA 37               | 4               |
| 3.3                           | 996                         | 254.93            | 2.8                                      | FAF87               | 6               | 88                            | 38                          | 15.81             | 5.0                                      | FAF37               | 4               |
| 3.7                           | 893                         | 228.57            | 3.2                                      | F 87                | 6               | 97                            | 34                          | 14.33             | 5.5                                      | F 37                | 4               |
|                               |                             |                   |  | FF 87               | 6               | 108                           | 31                          | 12.87             | 6.1                                      | FF 37               | 4               |
|                               |                             |                   |  |                     |                 | 125                           | 26                          | 11.08             | 6.7                                      |                     |                 |
| 3.8                           | 882                         | 225.79            | 1.6                                      | FA 77               | 6               | 133                           | 25                          | 10.42             | 7.0                                      |                     |                 |
| 4.3                           | 775                         | 198.31            | 1.8                                      | FAF77               | 6               | 155                           | 21                          | 8.97              | 7.6                                      |                     |                 |
| 4.5                           | 736                         | 188.40            | 1.9                                      | F 77                | 6               | 185                           | 18                          | 7.51              | 7.7                                      |                     |                 |
| 5.1                           | 651                         | 166.47            | 2.2                                      | FF 77               | 6               | 204                           | 16                          | 6.81              | 8.1                                      |                     |                 |
| 6.0                           | 556                         | 142.27            | 2.5                                      |                     |                 | 227                           | 15                          | 6.11              | 8.7                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 264                           | 13                          | 5.27              | 9.3                                      |                     |                 |
| 4.9                           | 673                         | 281.71            | 2.1                                      | FA 77               | 4               | 281                           | 12                          | 4.95              | 9.5                                      |                     |                 |
| 5.3                           | 628                         | 262.93            | 2.2                                      | FAF77               | 4               | 326                           | 10                          | 4.26              | 10                                       |                     |                 |
| 6.2                           | 540                         | 225.79            | 2.6                                      | F 77                | 4               |                               |                             |                   |  |                     |                 |
| 7.0                           | 474                         | 198.31            | 3.0                                      | FF 77               | 4               |                               |                             |                   |  |                     |                 |
|                               |                             |                   |  |                     |                 | <b>0.55kW</b>                 |                             |                   |  |                     |                 |
| 4.4                           | 764                         | 195.39            | 1.01                                     | FA 67               | 6               | 0.22                          | 21141                       | 6286              | 0.80                                     |                     |                 |
| 5.0                           | 668                         | 170.85            | 1.15                                     | FAF67               | 6               | 0.26                          | 18174                       | 5404              | 0.93                                     | FA 157R97           | 4               |
| 5.2                           | 634                         | 162.31            | 1.22                                     | F 67                | 6               | 0.50                          | 9336                        | 2776              | 1.81                                     | FAF157R97           | 4               |
| 6.0                           | 556                         | 142.40            | 1.4                                      | FF 67               | 6               | 0.57                          | 8162                        | 2427              | 2.1                                      | F 157R97            | 4               |
| 7.0                           | 472                         | 120.79            | 1.6                                      |                     |                 | 0.83                          | 5630                        | 1674              | 3.0                                      | FF 157R97           | 4               |
|                               |                             |                   |  |                     |                 | 1.1                           | 4399                        | 1308              | 3.8                                      |                     |                 |
| 6.1                           | 547                         | 228.99            | 1.41                                     | FA 67               | 4               | 1.2                           | 3931                        | 1169              | 4.3                                      |                     |                 |
| 7.1                           | 467                         | 195.39            | 1.65                                     | FAF67               | 4               |                               |                             |                   |  |                     |                 |
| 8.1                           | 408                         | 170.85            | 1.89                                     | F 67                | 4               | 0.36                          | 13009                       | 3868              | 0.87                                     | FA 127R77           | 4               |
| 8.6                           | 388                         | 162.31            | 1.99                                     | FF 67               | 4               | 0.41                          | 11445                       | 3403              | 0.99                                     | FAF127R77           | 4               |
| 9.8                           | 340                         | 142.40            | 2.3                                      |                     |                 | 0.47                          | 10046                       | 2987              | 1.12                                     | F 127R77            | 4               |
| 12                            | 289                         | 120.79            | 2.7                                      |                     |                 |                               |                             |                   |  | FF 127R77           | 4               |
|                               |                             |                   |  |                     |                 | 0.59                          | 7967                        | 2369              | 0.92                                     |                     |                 |
| 5.4                           | 614                         | 157.09            | 0.92                                     | FA 57               | 6               | 0.67                          | 6955                        | 2068              | 1.06                                     |                     |                 |
| 6.2                           | 532                         | 136.16            | 1.06                                     | FAF57               | 6               | 0.76                          | 6141                        | 1826              | 1.20                                     |                     |                 |
| 6.7                           | 497                         | 127.27            | 1.13                                     | F 57                | 6               | 0.87                          | 5371                        | 1597              | 1.37                                     | FA 107R77           | 4               |
| 7.7                           | 430                         | 110.01            | 1.31                                     | FF 57               | 6               | 0.99                          | 4712                        | 1401              | 1.56                                     | FAF107R77           | 4               |
|                               |                             |                   |  |                     |                 | 1.19                          | 3921                        | 1166              | 1.88                                     | F 107R77            | 4               |
| 7.0                           | 477                         | 199.70            | 1.18                                     |                     |                 | 1.28                          | 3656                        | 1087              | 2.0                                      | FF 107R77           | 4               |
| 7.6                           | 439                         | 183.60            | 1.29                                     |                     |                 | 1.46                          | 3195                        | 950               | 2.3                                      |                     |                 |
| 8.8                           | 375                         | 157.09            | 1.50                                     | FA 57               | 4               | 1.67                          | 2805                        | 834               | 2.6                                      |                     |                 |
| 10                            | 325                         | 136.16            | 1.73                                     | FAF57               | 4               | 2.17                          | 2152                        | 640               | 3.4                                      |                     |                 |
| 11                            | 304                         | 127.27            | 1.85                                     | F 57                | 4               |                               |                             |                   |  |                     |                 |
| 13                            | 263                         | 110.01            | 2.1                                      | FF 57               | 4               | 1.04                          | 4507                        | 1340              | 0.90                                     |                     |                 |
| 15                            | 223                         | 93.47             | 2.5                                      |                     |                 | 1.18                          | 3975                        | 1182              | 1.02                                     |                     |                 |
| 17                            | 199                         | 83.46             | 2.8                                      |                     |                 | 1.35                          | 3471                        | 1032              | 1.16                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 1.5                           | 3050                        | 907               | 1.33                                     | FA 97R57            | 4               |
| 9                             | 356                         | 148.98            | 1.06                                     |                     |                 | 1.7                           | 2677                        | 796               | 1.5                                      | FAF97R57            | 4               |
| 11                            | 309                         | 129.14            | 1.22                                     | FA 47               | 4               | 2.0                           | 2354                        | 700               | 1.7                                      | F 97R57             | 4               |
| 13                            | 249                         | 104.33            | 1.51                                     | FAF47               | 4               | 2.3                           | 2055                        | 611               | 2.0                                      | FF 97R57            | 4               |
| 16                            | 212                         | 88.65             | 1.77                                     | F 47                | 4               | 2.6                           | 1796                        | 534               | 2.3                                      |                     |                 |
| 18                            | 189                         | 79.15             | 2.0                                      | FF 47               | 4               | 2.9                           | 1587                        | 472               | 2.5                                      |                     |                 |
| 21                            | 162                         | 67.61             | 2.3                                      |                     |                 | 3.4                           | 1379                        | 410               | 2.9                                      |                     |                 |
| 21                            | 155                         | 64.89             | 2.4                                      |                     |                 | 3.8                           | 1234                        | 367               | 3.3                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 1.6                           | 2983                        | 887               | 0.95                                     |                     |                 |
| 16                            | 207                         | 86.53             | 0.91                                     |                     |                 | 1.8                           | 2623                        | 780               | 1.08                                     | FA 87R57            | 4               |
| 17                            | 193                         | 80.65             | 0.98                                     |                     |                 | 2.1                           | 2267                        | 674               | 1.24                                     | FAF87R57            | 4               |
| 20                            | 168                         | 70.50             | 1.12                                     | FA 37               | 4               | 2.3                           | 2048                        | 609               | 1.38                                     | F 87R57             | 4               |
| 21                            | 158                         | 66.09             | 1.19                                     | FAF37               | 4               | 2.7                           | 1732                        | 515               | 1.63                                     | FF 87R57            | 4               |
| 24                            | 139                         | 58.32             | 1.35                                     | F 37                | 4               | 3.1                           | 1520                        | 452               | 1.86                                     |                     |                 |
| 25                            | 130                         | 54.54             | 1.44                                     | FF 37               | 4               | 4.0                           | 1160                        | 345               | 2.4                                      |                     |                 |
| 27                            | 124                         | 51.70             | 1.52                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 30                            | 112                         | 47.02             | 1.67                                     |                     |                 |                               |                             |                   |  |                     |                 |

F

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>0.55kW</b>                 |                             |                   |  |                     |                 | <b>0.55kW</b>                 |                             |                   |  |                     |                 |
| 2.6                           | 1766                        | 525               | 0.80                                     | FA 77R37            | 4               | 21                            | 230                         | 64.89             | 1.63                                     | FA 47               | 4               |
| 3.0                           | 1577                        | 469               | 0.89                                     | FAF77R37            | 4               | 25                            | 199                         | 56.09             | 1.89                                     | FAF47               | 4               |
| 3.4                           | 1386                        | 412               | 1.02                                     | F 77R37             | 4               | 29                            | 169                         | 47.66             | 2.2                                      | F 47                | 4               |
| 3.9                           | 1201                        | 357               | 1.17                                     | FF 77R37            | 4               | 33                            | 151                         | 42.55             | 2.5                                      | FF 47               | 4               |
| 4.4                           | 1056                        | 314               | 1.34                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 5.4                           | 864                         | 257               | 0.89                                     | FA 67R37            | 4               | 24                            | 207                         | 58.32             | 0.91                                     |                     |                 |
| 6.3                           | 740                         | 220               | 1.04                                     | FAF67R37            | 4               | 25                            | 194                         | 54.54             | 0.97                                     |                     |                 |
| 7.1                           | 659                         | 196               | 1.17                                     | F 67R37             | 4               | 27                            | 184                         | 51.70             | 1.02                                     |                     |                 |
| 8.3                           | 562                         | 167               | 1.37                                     | FF 67R37            | 4               | 30                            | 167                         | 47.02             | 1.13                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 32                            | 156                         | 43.83             | 1.21                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 36                            | 136                         | 38.31             | 1.38                                     |                     |                 |
| 2.4                           | 2039                        | 276.64            | 1.98                                     | FA 97               | 8               | 39                            | 128                         | 35.91             | 1.47                                     |                     |                 |
| 2.6                           | 1878                        | 254.79            | 2.2                                      | FAF97               | 8               | 44                            | 113                         | 31.69             | 1.67                                     |                     |                 |
| 3.0                           | 1668                        | 226.34            | 2.4                                      | F 97                | 8               | 49                            | 100                         | 28.09             | 1.88                                     |                     |                 |
|                               |                             |                   |  | FF 97               | 8               | 58                            | 85                          | 23.88             | 2.2                                      |                     |                 |
| 2.5                           | 2004                        | 271.92            | 1.41                                     | FA 87               | 8               | 59                            | 84                          | 23.63             | 2.2                                      |                     |                 |
| 2.6                           | 1875                        | 254.93            | 1.50                                     | FAF87               | 8               | 68                            | 73                          | 20.57             | 2.6                                      | FA 37               | 4               |
| 2.9                           | 1684                        | 228.57            | 1.67                                     | F 87                | 8               | 72                            | 68                          | 19.27             | 2.7                                      | FAF37               | 4               |
| 3.4                           | 1450                        | 196.85            | 1.94                                     | FF 87               | 8               | 82                            | 60                          | 17.03             | 3.1                                      | F 37                | 4               |
|                               |                             |                   |  |                     |                 | 97                            | 51                          | 14.33             | 3.7                                      | FF 37               | 4               |
|                               |                             |                   |  |                     |                 | 108                           | 46                          | 12.87             | 4.1                                      |                     |                 |
| 3.3                           | 1517                        | 271.92            | 1.86                                     | FA 87               | 6               | 125                           | 39                          | 11.08             | 4.5                                      |                     |                 |
| 3.5                           | 1422                        | 254.93            | 1.98                                     | FAF87               | 6               | 133                           | 37                          | 10.42             | 4.7                                      |                     |                 |
| 3.9                           | 1275                        | 228.57            | 2.2                                      | F 87                | 6               | 155                           | 32                          | 8.97              | 5.1                                      |                     |                 |
| 4.5                           | 1098                        | 196.85            | 2.6                                      | FF 87               | 6               | 174                           | 28                          | 8.01              | 5.2                                      |                     |                 |
| 4.9                           | 998                         | 178.95            | 2.8                                      |                     |                 | 185                           | 27                          | 7.51              | 5.4                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 204                           | 24                          | 6.81              | 5.6                                      |                     |                 |
| 3.9                           | 1260                        | 225.79            | 1.12                                     | FA 77               | 6               | 227                           | 22                          | 6.11              | 5.8                                      |                     |                 |
| 4.5                           | 1106                        | 198.31            | 1.27                                     | FAF77               | 6               | 264                           | 19                          | 5.27              | 6.3                                      |                     |                 |
| 4.7                           | 1051                        | 188.40            | 1.34                                     | F 77                | 6               | 281                           | 18                          | 4.95              | 6.4                                      |                     |                 |
| 5.3                           | 929                         | 166.47            | 1.52                                     | FF 77               | 6               | 326                           | 15                          | 4.26              | 6.8                                      |                     |                 |
| 6.2                           | 794                         | 142.27            | 1.78                                     |                     |                 | 365                           | 14                          | 3.81              | 7.3                                      |                     |                 |
| 6.8                           | 728                         | 130.42            | 1.94                                     |                     |                 |                               |                             |                   |  |                     |                 |
|                               |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 6.2                           | 802                         | 225.79            | 1.76                                     |                     |                 | <b>0.75kW</b>                 |                             |                   |  |                     |                 |
| 7.0                           | 704                         | 198.31            | 2.0                                      |                     |                 | 0.50                          | 12731                       | 2776              | 1.33                                     | FA 157R97           | 4               |
| 7.4                           | 669                         | 188.40            | 2.1                                      | FA 77               | 4               | 0.57                          | 11130                       | 2427              | 1.52                                     | FAF157R97           | 4               |
| 8.3                           | 591                         | 166.47            | 2.4                                      | FAF77               | 4               | 0.83                          | 7677                        | 1674              | 2.2                                      | F 157R97            | 4               |
| 9.8                           | 505                         | 142.27            | 2.8                                      | F 77                | 4               | 1.1                           | 5999                        | 1308              | 2.8                                      | FF 157R97           | 4               |
| 11                            | 463                         | 130.42            | 3.0                                      | FF 77               | 4               | 1.2                           | 5361                        | 1169              | 3.2                                      |                     |                 |
| 12                            | 407                         | 114.45            | 3.5                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 13                            | 385                         | 108.46            | 3.7                                      |                     |                 | 0.47                          | 13699                       | 2987              | 0.82                                     |                     |                 |
| 15                            | 337                         | 94.93             | 4.2                                      |                     |                 | 0.52                          | 12350                       | 2693              | 0.91                                     | FA 127R77           | 4               |
|                               |                             |                   |  |                     |                 | 0.59                          | 10896                       | 2376              | 1.04                                     | FAF127R77           | 4               |
| 7.1                           | 694                         | 195.39            | 1.11                                     |                     |                 | 0.68                          | 9420                        | 2054              | 1.20                                     | F 127R77            | 4               |
| 8.1                           | 607                         | 170.85            | 1.27                                     |                     |                 | 0.77                          | 8246                        | 1798              | 1.37                                     | FF 127R77           | 4               |
| 8.6                           | 577                         | 162.31            | 1.34                                     | FA 67               | 4               | 0.86                          | 7425                        | 1619              | 1.52                                     |                     |                 |
| 9.8                           | 506                         | 142.40            | 1.52                                     | FAF67               | 4               |                               |                             |                   |  |                     |                 |
| 12                            | 429                         | 120.79            | 1.80                                     | F 67                | 4               | 0.76                          | 8374                        | 1826              | 0.88                                     |                     |                 |
| 13                            | 387                         | 109.04            | 2.0                                      | FF 67               | 4               | 0.88                          | 7241                        | 1597              | 1.02                                     |                     |                 |
| 14                            | 341                         | 95.94             | 2.3                                      |                     |                 | 0.99                          | 6425                        | 1401              | 1.15                                     | FA 107R77           | 4               |
| 15                            | 322                         | 90.59             | 2.4                                      |                     |                 | 1.1                           | 5700                        | 1243              | 1.29                                     | FAF107R77           | 4               |
| 18                            | 277                         | 77.97             | 2.8                                      |                     |                 | 1.3                           | 4985                        | 1087              | 1.48                                     | F 107R77            | 4               |
|                               |                             |                   |  |                     |                 | 1.5                           | 4357                        | 950               | 1.69                                     | FF 107R77           | 4               |
|                               |                             |                   |  |                     |                 | 1.7                           | 3825                        | 834               | 1.93                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 2.2                           | 2875                        | 627               | 2.6                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 3.3                           | 1958                        | 427               | 3.8                                      |                     |                 |
| 8.8                           | 558                         | 157.09            | 1.01                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 10                            | 484                         | 136.16            | 1.17                                     |                     |                 | 1.3                           | 4733                        | 1032              | 0.85                                     |                     |                 |
| 11                            | 452                         | 127.27            | 1.25                                     | FA 57               | 4               | 1.5                           | 4160                        | 907               | 0.97                                     |                     |                 |
| 13                            | 391                         | 110.01            | 1.44                                     | FAF57               | 4               | 1.7                           | 3651                        | 796               | 1.1                                      | FA 97R57            | 4               |
| 15                            | 332                         | 93.47             | 1.70                                     | F 57                | 4               | 2.0                           | 3210                        | 700               | 1.3                                      | FAF97R57            | 4               |
| 17                            | 296                         | 83.46             | 1.90                                     | FF 57               | 4               | 2.3                           | 2802                        | 611               | 1.4                                      | F 97R57             | 4               |
| 19                            | 260                         | 73.16             | 2.2                                      |                     |                 | 2.6                           | 2449                        | 534               | 1.7                                      | FF 97R57            | 4               |
| 20                            | 243                         | 68.38             | 2.3                                      |                     |                 | 2.9                           | 2165                        | 472               | 1.9                                      |                     |                 |
| 24                            | 210                         | 59.10             | 2.7                                      |                     |                 | 3.4                           | 1880                        | 410               | 2.1                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 3.8                           | 1683                        | 367               | 2.4                                      |                     |                 |
| 13                            | 371                         | 104.33            | 1.01                                     | FA 47               | 4               |                               |                             |                   |  |                     |                 |
| 16                            | 315                         | 88.65             | 1.19                                     | FAF47               | 4               |                               |                             |                   |  |                     |                 |
| 18                            | 281                         | 79.15             | 1.34                                     | F 47                | 4               |                               |                             |                   |  |                     |                 |
| 21                            | 240                         | 67.61             | 1.57                                     | FF 47               | 4               |                               |                             |                   |  |                     |                 |

F

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机 型 号<br>Type<br>Type | 极 数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机 型 号<br>Type<br>Type | 极 数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|-----------------------|------------------|-------------------------------|-----------------------------|-------------------|--|-----------------------|------------------|
| <b>0.75kW</b>                 |                             |                   |  |                       |                  | <b>0.75kW</b>                 |                             |                   |  |                       |                  |
| 2.1                           | 3091                        | 674               | 0.91                                     | FA 87R57              | 4                | 19                            | 354                         | 73.16             | 1.59                                     | FA 57                 | 4                |
| 2.3                           | 2793                        | 609               | 1.01                                     | FAF87R57              | 4                | 20                            | 331                         | 68.38             | 1.70                                     | FAF57                 | 4                |
| 2.7                           | 2362                        | 515               | 1.19                                     | F 87R57               | 4                | 24                            | 286                         | 59.10             | 1.97                                     | F 57                  | 4                |
| 3.1                           | 2073                        | 452               | 1.36                                     | FF 87R57              | 4                | 28                            | 243                         | 50.22             | 2.3                                      | FF 57                 | 4                |
| 4.0                           | 1582                        | 345               | 1.78                                     |                       |                  | 31                            | 217                         | 44.84             | 2.6                                      |                       |                  |
| 3.9                           | 1637                        | 357               | 0.86                                     | FA 77R37              | 4                | 17                            | 386                         | 79.72             | 0.97                                     |                       |                  |
| 4.4                           | 1440                        | 314               | 0.98                                     | FAF77R37              | 4                | 20                            | 330                         | 68.09             | 1.14                                     |                       |                  |
| 5.1                           | 1247                        | 272               | 1.13                                     | F 77R37               | 4                | 21                            | 317                         | 65.36             | 1.19                                     | FA 47                 | 4                |
|                               |                             |                   |  | FF 77R37              | 4                | 25                            | 272                         | 56.09             | 1.38                                     | FAF47                 | 4                |
|                               |                             |                   |  |                       |                  | 29                            | 231                         | 47.66             | 1.63                                     | F 47                  | 4                |
|                               |                             |                   |  | FA 107                | 8                | 33                            | 206                         | 42.55             | 1.82                                     | FF 47                 | 4                |
| 2.7                           | 2519                        | 255.25            | 2.9                                      | FAF107                | 8                | 38                            | 176                         | 36.34             | 2.1                                      |                       |                  |
|                               |                             |                   |  | F 107                 | 8                | 41                            | 165                         | 34.04             | 2.3                                      |                       |                  |
|                               |                             |                   |  | FF 107                | 8                | 48                            | 139                         | 28.67             | 2.7                                      |                       |                  |
| 2.5                           | 2739                        | 276.64            | 1.5                                      | FA 97                 | 8                | 30                            | 228                         | 47.02             | 0.83                                     |                       |                  |
| 2.7                           | 2523                        | 254.79            | 1.6                                      | FAF97                 | 8                | 32                            | 212                         | 43.83             | 0.89                                     |                       |                  |
| 3.0                           | 2241                        | 226.34            | 1.8                                      | F 97                  | 8                | 36                            | 186                         | 38.31             | 1.01                                     |                       |                  |
|                               |                             |                   |  | FF 97                 | 8                | 39                            | 174                         | 35.91             | 1.08                                     |                       |                  |
| 3.3                           | 2047                        | 276.64            | 2.0                                      | FA 97                 | 6                | 44                            | 153                         | 31.69             | 1.22                                     |                       |                  |
| 3.6                           | 1885                        | 254.79            | 2.1                                      | FAF97                 | 6                | 49                            | 136                         | 28.09             | 1.38                                     |                       |                  |
| 4.0                           | 1675                        | 226.34            | 2.4                                      | F 97                  | 6                | 58                            | 116                         | 23.88             | 1.63                                     |                       |                  |
|                               |                             |                   |  | FF 97                 | 6                | 59                            | 114                         | 23.63             | 1.6                                      |                       |                  |
| 3.3                           | 2012                        | 271.92            | 1.40                                     | FA 87                 | 6                | 68                            | 100                         | 20.57             | 1.9                                      | FA 37                 | 4                |
| 3.6                           | 1886                        | 254.93            | 1.50                                     | FAF87                 | 6                | 72                            | 93                          | 19.27             | 2.0                                      | FAF37                 | 4                |
| 4.0                           | 1691                        | 228.57            | 1.67                                     | F 87                  | 6                | 82                            | 82                          | 17.03             | 2.3                                      | F 37                  | 4                |
| 4.6                           | 1456                        | 196.85            | 1.94                                     | FF 87                 | 6                | 97                            | 69                          | 14.33             | 2.7                                      | FF 37                 | 4                |
| 5.1                           | 1324                        | 178.95            | 2.1                                      |                       |                  | 108                           | 62                          | 12.87             | 3.0                                      |                       |                  |
| 5.7                           | 1181                        | 159.61            | 2.4                                      |                       |                  | 125                           | 54                          | 11.08             | 3.3                                      |                       |                  |
|                               |                             |                   |  | FA 87                 | 4                | 133                           | 50                          | 10.42             | 3.4                                      |                       |                  |
| 5.1                           | 1317                        | 271.92            | 2.1                                      | FAF87                 | 4                | 155                           | 43                          | 8.97              | 3.8                                      |                       |                  |
| 5.4                           | 1235                        | 254.93            | 2.3                                      | F 87                  | 4                | 204                           | 33                          | 6.81              | 4.0                                      |                       |                  |
| 6.1                           | 1107                        | 228.57            | 2.5                                      | FF 87                 | 4                | 227                           | 30                          | 6.11              | 4.3                                      |                       |                  |
|                               |                             |                   |  |                       |                  | 264                           | 26                          | 5.27              | 4.6                                      |                       |                  |
| 4.6                           | 1467                        | 198.31            | 0.96                                     | FA 77                 | 6                | 281                           | 24                          | 4.95              | 4.7                                      |                       |                  |
| 4.8                           | 1394                        | 188.40            | 1.01                                     | FAF77                 | 6                | 326                           | 21                          | 4.26              | 5.0                                      |                       |                  |
| 5.5                           | 1232                        | 166.47            | 1.14                                     | F 77                  | 6                | 365                           | 18                          | 3.81              | 5.3                                      |                       |                  |
| 6.4                           | 1053                        | 142.27            | 1.34                                     | FF 77                 | 6                |                               |                             |                   |  |                       |                  |
| 7.0                           | 965                         | 130.42            | 1.46                                     |                       |                  | <b>1.1kW</b>                  |                             |                   |  |                       |                  |
| 6.2                           | 1094                        | 225.79            | 1.29                                     |                       |                  | 0.50                          | 18539                       | 2776              | 0.91                                     |                       |                  |
| 7.0                           | 961                         | 198.31            | 1.47                                     |                       |                  | 0.58                          | 16208                       | 2427              | 1.04                                     |                       |                  |
| 7.4                           | 913                         | 188.40            | 1.55                                     | FA 77                 | 4                | 0.64                          | 14592                       | 2185              | 1.16                                     |                       |                  |
| 8.3                           | 806                         | 166.47            | 1.75                                     | FAF77                 | 4                | 0.72                          | 12982                       | 1944              | 1.30                                     | FA 157R97             | 4                |
| 9.8                           | 689                         | 142.27            | 2.0                                      | F 77                  | 4                | 0.84                          | 11179                       | 1674              | 1.51                                     | FAF157R97             | 4                |
| 11                            | 632                         | 130.42            | 2.2                                      | FF 77                 | 4                | 1.1                           | 8735                        | 1308              | 1.94                                     | F 157R97              | 4                |
| 12                            | 554                         | 114.45            | 2.5                                      |                       |                  | 1.2                           | 7807                        | 1169              | 2.2                                      | FF 157R97             | 4                |
| 13                            | 525                         | 108.46            | 2.7                                      |                       |                  | 1.5                           | 6364                        | 953               | 2.7                                      |                       |                  |
|                               |                             |                   |  |                       |                  | 1.7                           | 5643                        | 845               | 3.0                                      |                       |                  |
| 8.1                           | 828                         | 170.85            | 0.93                                     |                       |                  | 3.1                           | 2978                        | 446               | 5.7                                      |                       |                  |
| 8.6                           | 786                         | 162.31            | 0.98                                     |                       |                  | 4.7                           | 2010                        | 301               | 8.4                                      |                       |                  |
| 9.8                           | 690                         | 142.40            | 1.12                                     |                       |                  |                               |                             |                   |  |                       |                  |
| 12                            | 585                         | 120.79            | 1.32                                     | FA 67                 | 4                | 0.68                          | 13717                       | 2054              | 0.82                                     |                       |                  |
| 13                            | 528                         | 109.04            | 1.46                                     | FAF67                 | 4                | 0.78                          | 12007                       | 1798              | 0.94                                     | FA 127R77             | 4                |
| 14                            | 465                         | 95.94             | 1.66                                     | F 67                  | 4                | 0.86                          | 10812                       | 1619              | 1.04                                     | FAF127R77             | 4                |
| 15                            | 439                         | 90.59             | 1.76                                     | FF 67                 | 4                | 1.0                           | 9356                        | 1401              | 1.21                                     | F 127R77              | 4                |
| 18                            | 378                         | 77.97             | 2.0                                      |                       |                  | 1.1                           | 8214                        | 1230              | 1.37                                     | FF 127R77             | 4                |
| 21                            | 320                         | 66.13             | 2.4                                      |                       |                  | 1.3                           | 7246                        | 1085              | 1.56                                     |                       |                  |
| 23                            | 289                         | 59.70             | 2.7                                      |                       |                  |                               |                             |                   |  |                       |                  |
| 11                            | 616                         | 127.27            | 0.91                                     | FA 57                 | 4                | 1.1                           | 8301                        | 1243              | 0.89                                     |                       |                  |
| 13                            | 533                         | 110.01            | 1.06                                     | FAF57                 | 4                | 1.3                           | 7259                        | 1087              | 1.02                                     | FA 107R77             | 4                |
| 15                            | 453                         | 93.47             | 1.25                                     | F 57                  | 4                | 1.5                           | 6344                        | 950               | 1.16                                     | FAF107R77             | 4                |
| 17                            | 404                         | 83.46             | 1.40                                     | FF 57                 | 4                | 1.7                           | 5570                        | 834               | 1.32                                     | F 107R77              | 4                |
|                               |                             |                   |  |                       |                  | 1.9                           | 4915                        | 736               | 1.50                                     | FF 107R77             | 4                |
|                               |                             |                   |  |                       |                  | 2.2                           | 4274                        | 640               | 1.72                                     |                       |                  |

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>1.1kW</b>                  |                             |                   |  |                     |                 | <b>1.1kW</b>                  |                             |                   |  |                     |                 |
| 2.0                           | 4675                        | 700               | 0.86                                     |                     |                 | 17                            | 589                         | 83.46             | 0.96                                     |                     |                 |
| 2.3                           | 4080                        | 611               | 0.99                                     | FA 97R57            | 4               | 19                            | 516                         | 73.16             | 1.09                                     |                     |                 |
| 2.6                           | 3566                        | 534               | 1.13                                     | FAF97R57            | 4               | 20                            | 482                         | 68.38             | 1.17                                     | FA 57               | 4               |
| 3.0                           | 3152                        | 472               | 1.28                                     | F 97R57             | 4               | 24                            | 417                         | 59.10             | 1.35                                     | FAF57               | 4               |
| 3.4                           | 2738                        | 410               | 1.48                                     | FF 97R57            | 4               | 28                            | 354                         | 50.22             | 1.59                                     | F 57                | 4               |
| 3.8                           | 2451                        | 367               | 1.65                                     |                     |                 | 31                            | 316                         | 44.84             | 1.78                                     | FF 57               | 4               |
| 3.1                           | 3019                        | 452               | 0.93                                     | FA 87R57            | 4               | 37                            | 270                         | 38.30             | 2.1                                      |                     |                 |
| 4.1                           | 2304                        | 345               | 1.22                                     | FAF87R57            | 4               | 39                            | 253                         | 35.87             | 2.2                                      |                     |                 |
| 4.7                           | 2003                        | 300               | 1.41                                     | F 87R57             | 4               | 46                            | 213                         | 30.22             | 2.6                                      |                     |                 |
| 5.6                           | 1663                        | 249               | 1.70                                     | FF 87R57            | 4               |                               |                             |                   |  |                     |                 |
| 2.7                           | 3707                        | 255.25            | 1.95                                     | FA 107              | 8               | 25                            | 396                         | 56.09             | 0.95                                     |                     |                 |
| 3.2                           | 3123                        | 215.04            | 2.3                                      | FAF107              | 8               | 29                            | 336                         | 47.66             | 1.12                                     |                     |                 |
| 3.4                           | 2894                        | 199.31            | 2.5                                      | F 107               | 8               | 33                            | 300                         | 42.55             | 1.25                                     |                     |                 |
| 3.8                           | 2594                        | 178.64            | 2.8                                      | FF 107              | 8               | 39                            | 256                         | 36.34             | 1.47                                     | FA 47               | 4               |
| 3.3                           | 3002                        | 276.64            | 1.35                                     | FA 97               | 6               | 41                            | 240                         | 34.04             | 1.57                                     | FAF47               | 4               |
| 3.6                           | 2765                        | 254.79            | 1.46                                     | FAF97               | 6               | 46                            | 216                         | 30.64             | 1.74                                     | F 47                | 4               |
| 4.0                           | 2456                        | 226.34            | 1.65                                     | F 97                | 6               | 48                            | 205                         | 29.11             | 1.83                                     | FF 47               | 4               |
| 4.8                           | 2045                        | 188.50            | 2.0                                      | FF 97               | 6               | 49                            | 202                         | 28.67             | 1.86                                     |                     |                 |
| 5.2                           | 1908                        | 175.83            | 2.1                                      |                     |                 | 55                            | 180                         | 25.54             | 2.1                                      |                     |                 |
| 5.1                           | 1951                        | 276.64            | 2.1                                      | FA 97               | 4               | 65                            | 153                         | 21.66             | 2.5                                      |                     |                 |
| 5.5                           | 1797                        | 254.79            | 2.2                                      | FAF97               | 4               | 72                            | 138                         | 19.56             | 2.7                                      |                     |                 |
| 6.2                           | 1596                        | 226.34            | 2.5                                      | F 97                | 4               |                               |                             |                   |  |                     |                 |
|                               |                             |                   |  | FF 97               | 4               | 44                            | 224                         | 31.69             | 0.84                                     |                     |                 |
| 3.3                           | 2951                        | 271.92            | 0.96                                     | FA 87               | 6               | 50                            | 198                         | 28.09             | 0.95                                     |                     |                 |
| 3.6                           | 2766                        | 254.93            | 1.02                                     | FAF87               | 6               | 59                            | 168                         | 23.88             | 1.12                                     |                     |                 |
| 4.0                           | 2480                        | 228.57            | 1.14                                     | F 87                | 6               | 68                            | 145                         | 20.57             | 1.30                                     | FA 37               | 4               |
| 4.6                           | 2136                        | 196.85            | 1.32                                     | FF 87               | 6               | 73                            | 136                         | 19.27             | 1.38                                     | FAF37               | 4               |
| 5.1                           | 1942                        | 178.95            | 1.45                                     |                     |                 | 82                            | 120                         | 17.03             | 1.57                                     | F 37                | 4               |
| 5.7                           | 1732                        | 159.61            | 1.63                                     |                     |                 | 98                            | 101                         | 14.33             | 1.86                                     | FF 37               | 4               |
| 5.2                           | 1911                        | 271.92            | 1.48                                     | FA 87               | 4               | 109                           | 91                          | 12.87             | 2.1                                      |                     |                 |
| 5.5                           | 1798                        | 254.93            | 1.57                                     | FAF87               | 4               | 126                           | 78                          | 11.08             | 2.3                                      |                     |                 |
| 6.1                           | 1612                        | 228.57            | 1.75                                     | F 87                | 4               | 134                           | 73                          | 10.42             | 2.4                                      |                     |                 |
| 7.1                           | 1388                        | 196.85            | 2.0                                      | FF 87               | 4               | 156                           | 63                          | 8.97              | 2.6                                      |                     |                 |
| 7.8                           | 1262                        | 178.95            | 2.2                                      |                     |                 | 175                           | 56                          | 8.01              | 2.7                                      |                     |                 |
| 8.8                           | 1126                        | 159.61            | 2.5                                      |                     |                 | 206                           | 48                          | 6.81              | 2.8                                      |                     |                 |
| 10                            | 946                         | 134.16            | 3.0                                      |                     |                 | 229                           | 43                          | 6.11              | 2.9                                      |                     |                 |
| 11                            | 870                         | 123.29            | 3.2                                      |                     |                 | 266                           | 37                          | 5.27              | 3.2                                      |                     |                 |
| 7.1                           | 1399                        | 198.31            | 1.01                                     | FA 77               | 4               | 283                           | 35                          | 4.95              | 3.2                                      |                     |                 |
| 7.4                           | 1329                        | 188.40            | 1.06                                     | FAF77               | 4               | 329                           | 30                          | 4.26              | 3.4                                      |                     |                 |
| 8.4                           | 1174                        | 166.47            | 1.20                                     | F 77                | 4               | 367                           | 27                          | 3.81              | 3.7                                      |                     |                 |
| 9.8                           | 1003                        | 142.27            | 1.41                                     | FF 77               | 4               |                               |                             |                   |  |                     |                 |
| 11                            | 920                         | 130.42            | 1.53                                     |                     |                 | 0.58                          | 22102                       | 2427              | 0.77                                     | FA 157R97           | 4               |
| 12                            | 807                         | 114.45            | 1.75                                     |                     |                 | 0.64                          | 19898                       | 2185              | 0.85                                     | FAF157R97           | 4               |
| 13                            | 765                         | 108.46            | 1.84                                     |                     |                 | 0.72                          | 17703                       | 1944              | 0.96                                     | F 157R97            | 4               |
| 15                            | 670                         | 94.93             | 2.1                                      |                     |                 | 0.84                          | 15244                       | 1674              | 1.11                                     | FF 157R97           | 4               |
| 16                            | 603                         | 85.52             | 2.3                                      |                     |                 | 1.1                           | 11911                       | 1308              | 1.42                                     |                     |                 |
| 19                            | 529                         | 75.02             | 2.7                                      |                     |                 | 1.2                           | 10646                       | 1169              | 1.59                                     |                     |                 |
| 12                            | 853                         | 120.79            | 0.9                                      |                     |                 | 1.5                           | 8679                        | 953               | 1.95                                     |                     |                 |
| 13                            | 769                         | 109.04            | 1.0                                      |                     |                 | 1.7                           | 7695                        | 845               | 2.2                                      |                     |                 |
| 15                            | 677                         | 95.94             | 1.1                                      |                     |                 | 3.1                           | 4062                        | 446               | 4.2                                      |                     |                 |
| 16                            | 639                         | 90.59             | 1.2                                      |                     |                 | 4.7                           | 2741                        | 301               | 6.2                                      |                     |                 |
| 18                            | 550                         | 77.97             | 1.4                                      | FA 67               | 4               |                               |                             |                   |  |                     |                 |
| 21                            | 466                         | 66.13             | 1.7                                      | FAF67               | 4               | 0.86                          | 14744                       | 1619              | 0.77                                     | FA 127R77           | 4               |
| 23                            | 421                         | 59.70             | 1.8                                      | F 67                | 4               | 1.0                           | 12758                       | 1401              | 0.88                                     | FAF127R77           | 4               |
| 27                            | 371                         | 52.53             | 2.1                                      | FF 67               | 4               | 1.1                           | 11201                       | 1230              | 1.01                                     | F 127R77            | 4               |
| 28                            | 350                         | 49.60             | 2.2                                      |                     |                 | 1.3                           | 9881                        | 1085              | 1.14                                     | FF 127R77           | 4               |
| 33                            | 298                         | 42.23             | 2.6                                      |                     |                 | 1.5                           | 8533                        | 937               | 1.32                                     |                     |                 |
| 36                            | 271                         | 38.38             | 2.7                                      |                     |                 | 1.7                           | 7531                        | 827               | 1.50                                     |                     |                 |
| 42                            | 234                         | 33.24             | 3.0                                      |                     |                 | 1.9                           | 6675                        | 733               | 1.69                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 2.2                           | 5828                        | 640               | 1.94                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 1.5                           | 8651                        | 950               | 0.83                                     | FA 107R77           | 4               |
|                               |                             |                   |  |                     |                 | 1.7                           | 7595                        | 834               | 0.95                                     | FAF107R77           | 4               |
|                               |                             |                   |  |                     |                 | 1.9                           | 6702                        | 736               | 1.08                                     | F 107R77            | 4               |
|                               |                             |                   |  |                     |                 | 2.2                           | 5710                        | 627               | 1.26                                     | FF 107R77           | 4               |

F





选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>3kW</b>                    |                             |                   |  |                     |                 | <b>3kW</b>                    |                             |                   |  |                     |                 |
| 1.9                           | 13162                       | 733               | 0.86                                     | FA 127R77           | 4               | 57                            | 473                         | 24.96             | 1.19                                     |                     |                 |
| 2.2                           | 11492                       | 640               | 0.98                                     | FAF127R77           | 4               | 67                            | 401                         | 21.17             | 1.40                                     |                     |                 |
| 2.6                           | 9733                        | 542               | 1.16                                     | F 127R77            | 4               | 74                            | 362                         | 19.11             | 1.56                                     | FA 57               | 4               |
| 2.9                           | 8781                        | 489               | 1.28                                     | FF 127R77           | 4               | 84                            | 319                         | 16.81             | 1.77                                     | FAF57               | 4               |
|                               |                             |                   |  |                     |                 | 89                            | 301                         | 15.88             | 1.87                                     | F 57                | 4               |
| 3.3                           | 7668                        | 427               | 0.96                                     | FA 107R77           | 4               | 105                           | 256                         | 13.52             | 2.2                                      | FF 57               | 4               |
| 3.9                           | 6500                        | 362               | 1.13                                     | FAF107R77           | 4               | 116                           | 233                         | 12.29             | 2.4                                      |                     |                 |
| 4.3                           | 5872                        | 327               | 1.26                                     | F 107R77            | 4               | 133                           | 202                         | 10.64             | 2.8                                      |                     |                 |
| 5.0                           | 5118                        | 285               | 1.44                                     | FF 107R77           | 4               |                               |                             |                   |  |                     |                 |
| 3.8                           | 7161                        | 255.25            | 1.03                                     | FA 107              | 6               | 73                            | 371                         | 19.56             | 1.01                                     |                     |                 |
| 4.5                           | 6033                        | 215.04            | 1.22                                     | FAF107              | 6               | 83                            | 326                         | 17.21             | 1.15                                     | FA 47               | 4               |
| 4.8                           | 5591                        | 199.31            | 1.32                                     | F 107               | 6               | 87                            | 308                         | 16.25             | 1.22                                     | FAF47               | 4               |
| 5.4                           | 5011                        | 178.64            | 1.47                                     | FF 107              | 6               | 103                           | 262                         | 13.83             | 1.43                                     | F 47                | 4               |
|                               |                             |                   |  |                     |                 | 113                           | 238                         | 12.57             | 1.58                                     | FF 47               | 4               |
| 5.6                           | 4841                        | 255.25            | 1.52                                     | FA 107              | 4               | 130                           | 207                         | 10.89             | 1.80                                     |                     |                 |
| 6.6                           | 4078                        | 215.04            | 1.81                                     | FAF107              | 4               | 156                           | 172                         | 9.08              | 1.82                                     |                     |                 |
| 7.1                           | 3780                        | 199.31            | 1.95                                     | F 107               | 4               |                               |                             |                   |  |                     |                 |
| 7.9                           | 3388                        | 178.64            | 2.2                                      | FF 107              | 4               | 128                           | 210                         | 11.08             | 0.85                                     |                     |                 |
| 8.8                           | 3059                        | 161.28            | 2.4                                      |                     |                 | 136                           | 198                         | 10.42             | 0.88                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 158                           | 170                         | 8.97              | 0.97                                     |                     |                 |
| 6.3                           | 4293                        | 226.34            | 0.94                                     |                     |                 | 177                           | 152                         | 8.01              | 1.02                                     | FA 37               | 4               |
| 7.5                           | 3575                        | 188.50            | 1.13                                     | FA 97               | 4               | 209                           | 129                         | 6.81              | 1.05                                     | FAF37               | 4               |
| 8.1                           | 3335                        | 175.83            | 1.21                                     | FAF97               | 4               | 232                           | 116                         | 6.11              | 1.10                                     | F 37                | 4               |
| 9.0                           | 2981                        | 157.16            | 1.36                                     | F 97                | 4               | 269                           | 100                         | 5.27              | 1.18                                     | FF 37               | 4               |
| 10                            | 2683                        | 141.47            | 1.51                                     | FF 97               | 4               | 287                           | 94                          | 4.95              | 1.20                                     |                     |                 |
| 11                            | 2430                        | 128.12            | 1.66                                     |                     |                 | 333                           | 81                          | 4.26              | 1.28                                     |                     |                 |
| 12                            | 2155                        | 113.61            | 1.88                                     |                     |                 | 373                           | 72                          | 3.81              | 1.37                                     |                     |                 |
| 14                            | 1948                        | 102.72            | 2.1                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 16                            | 1721                        | 90.77             | 2.3                                      |                     |                 |                               |                             |                   |  |                     |                 |
|                               |                             |                   |  |                     |                 | <b>4kW</b>                    |                             |                   |  |                     |                 |
| 11                            | 2544                        | 134.16            | 1.11                                     |                     |                 | 1.7                           | 19950                       | 845               | 0.85                                     |                     |                 |
| 12                            | 2338                        | 123.29            | 1.21                                     |                     |                 | 1.9                           | 18038                       | 764               | 0.94                                     |                     |                 |
| 13                            | 2077                        | 109.49            | 1.36                                     |                     |                 | 2.1                           | 16055                       | 680               | 1.05                                     | FA 157R97           | 4               |
| 15                            | 1857                        | 97.89             | 1.52                                     |                     |                 | 2.5                           | 13599                       | 576               | 1.24                                     | FAF157R97           | 4               |
| 16                            | 1669                        | 88.01             | 1.69                                     | FA 87               | 4               | 3.2                           | 10530                       | 446               | 1.61                                     | F 157R97            | 4               |
| 19                            | 1449                        | 76.39             | 1.9                                      | FAF87               | 4               | 4.8                           | 7107                        | 304               | 2.4                                      | FF 157R97           | 4               |
| 21                            | 1297                        | 68.40             | 2.2                                      | F 87                | 4               | 5.3                           | 6422                        | 272               | 2.6                                      |                     |                 |
| 25                            | 1076                        | 56.75             | 2.6                                      | FF 87               | 4               | 6.2                           | 5454                        | 231               | 3.1                                      |                     |                 |
| 28                            | 954                         | 50.29             | 2.9                                      |                     |                 | 7.3                           | 4628                        | 196               | 3.7                                      |                     |                 |
|                               |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 17                            | 1622                        | 85.52             | 0.87                                     |                     |                 | 2.7                           | 12796                       | 542               | 0.88                                     | FA 127R77           | 4               |
| 19                            | 1423                        | 75.02             | 0.99                                     |                     |                 | 2.9                           | 11545                       | 489               | 0.98                                     | FAF127R77           | 4               |
| 21                            | 1257                        | 66.28             | 1.12                                     |                     |                 | 3.4                           | 9987                        | 423               | 1.13                                     | F 127R77            | 4               |
| 24                            | 1103                        | 58.16             | 1.28                                     |                     |                 | 3.9                           | 8759                        | 371               | 1.29                                     | FF 127R77           | 4               |
| 26                            | 1045                        | 55.12             | 1.35                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 29                            | 915                         | 48.24             | 1.5                                      | FA 77               | 4               | 4.4                           | 7720                        | 327               | 0.94                                     | FA 107R77           | 4               |
| 33                            | 824                         | 43.46             | 1.54                                     | FAF77               | 4               | 5.1                           | 6729                        | 285               | 1.07                                     | FAF107R77           | 4               |
| 37                            | 723                         | 38.12             | 1.71                                     | F 77                | 4               | 6.5                           | 5218                        | 221               | 1.38                                     | F 107R77            | 4               |
| 39                            | 694                         | 36.52             | 1.95                                     | FF 77               | 4               |                               |                             |                   |  |                     |                 |
| 45                            | 598                         | 31.45             | 2.2                                      |                     |                 | 4.2                           | 8594                        | 172.33            | 1.31                                     | FA 127              | 8               |
| 49                            | 545                         | 28.59             | 2.5                                      |                     |                 | 4.6                           | 7721                        | 154.81            | 1.46                                     | FAF127              | 8               |
| 56                            | 484                         | 25.50             | 2.9                                      |                     |                 | 5.7                           | 6269                        | 125.71            | 1.80                                     | F 127               | 8               |
| 66                            | 406                         | 21.43             | 3.5                                      |                     |                 |                               |                             |                   |  | FF 127              | 8               |
|                               |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 33                            | 819                         | 43.20             | 0.94                                     |                     |                 | 5.6                           | 6365                        | 255.25            | 1.16                                     |                     |                 |
| 36                            | 745                         | 39.26             | 0.98                                     |                     |                 | 6.7                           | 5363                        | 215.04            | 1.37                                     |                     |                 |
| 42                            | 645                         | 34.01             | 1.08                                     |                     |                 | 7.2                           | 4970                        | 199.31            | 1.48                                     | FA 107              | 4               |
| 44                            | 608                         | 32.08             | 1.27                                     |                     |                 | 8.1                           | 4455                        | 178.64            | 1.65                                     | FAF107              | 4               |
| 52                            | 520                         | 27.41             | 1.48                                     | FA 67               | 4               | 8.9                           | 4022                        | 161.28            | 1.83                                     | F 107               | 4               |
| 57                            | 477                         | 25.13             | 1.62                                     | FAF67               | 4               | 9.8                           | 3653                        | 146.49            | 2.02                                     | FF 107              | 4               |
| 64                            | 418                         | 22.05             | 1.84                                     | F 67                | 4               | 11                            | 3241                        | 129.97            | 2.3                                      |                     |                 |
| 68                            | 396                         | 20.90             | 1.94                                     | FF 67               | 4               | 12                            | 2941                        | 117.94            | 2.5                                      |                     |                 |
| 78                            | 347                         | 18.29             | 2.2                                      |                     |                 | 14                            | 2528                        | 101.38            | 2.9                                      |                     |                 |
| 86                            | 313                         | 16.48             | 2.5                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 98                            | 274                         | 14.46             | 2.8                                      |                     |                 |                               |                             |                   |  |                     |                 |

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>4kW</b>                    |                             |                   |  |                     |                 | <b>5.5kW</b>                  |                             |                   |  |                     |                 |
| 8.2                           | 4385                        | 175.83            | 0.92                                     |                     |                 | 2.5                           | 18699                       | 576               | 0.90                                     |                     |                 |
| 9.2                           | 3919                        | 157.16            | 1.03                                     |                     |                 | 2.9                           | 16329                       | 503               | 1.04                                     |                     |                 |
| 10                            | 3528                        | 141.47            | 1.15                                     |                     |                 | 3.2                           | 14479                       | 446               | 1.17                                     |                     |                 |
| 11                            | 3195                        | 128.12            | 1.27                                     |                     |                 | 4.1                           | 11460                       | 353               | 1.48                                     | FA 157R97           | 4               |
| 13                            | 2833                        | 113.61            | 1.43                                     | FA 97               | 4               | 4.8                           | 9771                        | 301               | 1.73                                     | FAF157R97           | 4               |
| 14                            | 2561                        | 102.72            | 1.58                                     | FAF97               | 4               | 5.3                           | 8830                        | 272               | 1.92                                     | F 157R97            | 4               |
| 15                            | 2427                        | 97.31             | 1.67                                     | F 97                | 4               | 6.2                           | 7499                        | 231               | 2.3                                      | FF 157R97           | 4               |
| 16                            | 2263                        | 90.77             | 1.79                                     | FF 97               | 4               | 7.1                           | 6558                        | 202               | 2.6                                      |                     |                 |
| 18                            | 2023                        | 81.13             | 2.0                                      |                     |                 | 7.3                           | 6363                        | 196               | 2.7                                      |                     |                 |
| 20                            | 1821                        | 73.03             | 2.2                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 22                            | 1649                        | 66.14             | 2.5                                      |                     |                 | 3.5                           | 13537                       | 417               | 0.83                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 3.9                           | 12109                       | 373               | 0.93                                     | FA 127R87           | 4               |
| 13                            | 2730                        | 109.49            | 1.03                                     |                     |                 | 4.6                           | 10129                       | 312               | 1.11                                     | FAF127R87           | 4               |
| 15                            | 2441                        | 97.89             | 1.16                                     |                     |                 | 4.9                           | 9512                        | 293               | 1.19                                     | F 127R87            | 4               |
| 16                            | 2195                        | 88.01             | 1.28                                     | FA 87               | 4               | 5.5                           | 8505                        | 262               | 1.33                                     | FF 127R87           | 4               |
| 19                            | 1905                        | 76.39             | 1.48                                     | FAF87               | 4               | 6.4                           | 7337                        | 226               | 1.54                                     |                     |                 |
| 21                            | 1706                        | 68.40             | 1.65                                     | F 87                | 4               |                               |                             |                   |  |                     |                 |
| 25                            | 1415                        | 56.75             | 1.99                                     | FF 87               | 4               | 3.4                           | 13732                       | 423               | 0.82                                     | FA 127R77           | 4               |
| 29                            | 1254                        | 50.29             | 2.2                                      |                     |                 | 3.9                           | 12044                       | 371               | 0.94                                     | FAF127R77           | 4               |
| 32                            | 1128                        | 45.22             | 2.5                                      |                     |                 |                               |                             |                   |  | F 127R77            | 4               |
|                               |                             |                   |  |                     |                 |                               |                             |                   |  | FF 127R77           | 4               |
| 22                            | 1653                        | 66.28             | 0.85                                     |                     |                 | 2.7                           | 18293                       | 266.76            | 0.92                                     |                     |                 |
| 25                            | 1450                        | 58.16             | 0.97                                     |                     |                 | 3.3                           | 14977                       | 218.40            | 1.1                                      |                     |                 |
| 26                            | 1374                        | 55.12             | 1.03                                     |                     |                 | 4.0                           | 12149                       | 177.17            | 1.4                                      |                     |                 |
| 30                            | 1203                        | 48.24             | 1.17                                     |                     |                 | 4.4                           | 11269                       | 164.33            | 1.5                                      | FA 157              | 8               |
| 33                            | 1084                        | 43.46             | 1.30                                     |                     |                 | 5.1                           | 9724                        | 141.80            | 1.7                                      | FAF157              | 8               |
| 38                            | 951                         | 38.12             | 1.48                                     | FA 77               | 4               | 5.8                           | 8581                        | 125.14            | 2.0                                      | F 157               | 8               |
| 43                            | 839                         | 33.64             | 1.68                                     | FAF77               | 4               | 6.6                           | 7440                        | 108.49            | 2.3                                      | FF 157              | 8               |
| 48                            | 744                         | 29.82             | 1.90                                     | F 77                | 4               | 7.5                           | 6619                        | 96.53             | 2.6                                      |                     |                 |
| 50                            | 717                         | 28.59             | 1.97                                     | FF 77               | 4               | 8.3                           | 5959                        | 86.90             | 2.8                                      |                     |                 |
| 56                            | 636                         | 25.50             | 2.2                                      |                     |                 | 9.1                           | 5450                        | 79.47             | 3.1                                      |                     |                 |
| 57                            | 635                         | 25.47             | 2.2                                      |                     |                 | 10                            | 4742                        | 69.15             | 3.6                                      |                     |                 |
| 67                            | 534                         | 21.43             | 2.6                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 73                            | 491                         | 19.70             | 2.9                                      |                     |                 | 4.2                           | 11817                       | 172.33            | 0.95                                     | FA 127              | 8               |
|                               |                             |                   |  |                     |                 | 4.7                           | 10616                       | 154.81            | 1.06                                     | FAF127              | 8               |
| 53                            | 683                         | 27.41             | 1.13                                     |                     |                 | 5.7                           | 8620                        | 125.71            | 1.31                                     | F 127               | 8               |
| 57                            | 627                         | 25.13             | 1.23                                     |                     |                 | 6.2                           | 7555                        | 116.00            | 1.42                                     | FF 127              | 8               |
| 65                            | 550                         | 22.05             | 1.40                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 69                            | 521                         | 20.90             | 1.48                                     |                     |                 | 6.7                           | 7373                        | 215.04            | 0.98                                     |                     |                 |
| 79                            | 456                         | 18.29             | 1.69                                     |                     |                 | 7.2                           | 6834                        | 199.31            | 1.06                                     | FA 107              | 4               |
| 87                            | 411                         | 16.48             | 1.88                                     |                     |                 | 8.1                           | 6125                        | 178.64            | 1.18                                     | FAF107              | 4               |
| 100                           | 361                         | 14.46             | 2.1                                      |                     |                 | 8.9                           | 5530                        | 161.28            | 1.31                                     | F 107               | 4               |
| 113                           | 318                         | 12.76             | 2.4                                      | FA 67               | 4               | 9.8                           | 5023                        | 146.49            | 1.44                                     | FF 107              | 4               |
| 127                           | 282                         | 11.31             | 2.7                                      | FAF67               | 4               | 11                            | 4456                        | 129.97            | 1.62                                     |                     |                 |
| 149                           | 241                         | 9.66              | 3.2                                      | F 67                | 4               |                               |                             |                   |  |                     |                 |
| 150                           | 240                         | 9.61              | 2.1                                      | FF 67               | 4               | 12                            | 4044                        | 117.94            | 1.79                                     | FA 107              | 4               |
| 158                           | 227                         | 9.11              | 2.4                                      |                     |                 | 14                            | 3476                        | 101.38            | 2.1                                      | FAF107              | 4               |
| 181                           | 199                         | 7.97              | 2.9                                      |                     |                 | 16                            | 3171                        | 92.47             | 2.3                                      | F 107               | 4               |
| 201                           | 179                         | 7.18              | 3.3                                      |                     |                 | 16                            | 3034                        | 88.49             | 2.4                                      | FF 107              | 4               |
| 229                           | 157                         | 6.30              | 3.6                                      |                     |                 | 17                            | 2880                        | 83.99             | 2.5                                      |                     |                 |
| 259                           | 139                         | 5.56              | 4.0                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 292                           | 123                         | 4.93              | 4.3                                      |                     |                 | 11                            | 4393                        | 128.12            | 0.92                                     |                     |                 |
| 342                           | 105                         | 4.21              | 4.5                                      |                     |                 | 13                            | 3895                        | 113.61            | 1.04                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 14                            | 3522                        | 102.72            | 1.15                                     |                     |                 |
| 68                            | 528                         | 21.17             | 1.07                                     |                     |                 | 15                            | 3336                        | 97.31             | 1.21                                     |                     |                 |
| 75                            | 477                         | 19.11             | 1.18                                     |                     |                 | 16                            | 3112                        | 90.77             | 1.30                                     | FA 97               | 4               |
| 86                            | 419                         | 16.81             | 1.35                                     |                     |                 | 17                            | 2985                        | 87.06             | 1.35                                     | FAF97               | 4               |
| 91                            | 396                         | 15.88             | 1.42                                     |                     |                 | 18                            | 2782                        | 81.13             | 1.45                                     | F 97                | 4               |
| 107                           | 337                         | 13.52             | 1.67                                     |                     |                 | 19                            | 2620                        | 76.40             | 1.54                                     | FF 97               | 4               |
| 117                           | 306                         | 12.29             | 1.84                                     | FA 57               | 4               | 21                            | 2504                        | 73.03             | 1.68                                     |                     |                 |
| 135                           | 265                         | 10.64             | 2.1                                      | FAF57               | 4               | 22                            | 2268                        | 66.14             | 1.78                                     |                     |                 |
| 155                           | 232                         | 9.31              | 1.70                                     | F 57                | 4               | 25                            | 2011                        | 58.65             | 2.0                                      |                     |                 |
| 176                           | 204                         | 8.19              | 1.93                                     | FF 57               | 4               | 27                            | 1818                        | 53.03             | 2.2                                      |                     |                 |
| 186                           | 193                         | 7.73              | 2.0                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 219                           | 164                         | 6.58              | 2.4                                      |                     |                 | 16                            | 3018                        | 88.01             | 0.93                                     | FA 87               | 4               |
| 241                           | 149                         | 5.98              | 2.6                                      |                     |                 | 19                            | 2619                        | 76.39             | 1.08                                     | FAF87               | 4               |
| 278                           | 129                         | 5.18              | 3.0                                      |                     |                 | 21                            | 2345                        | 68.40             | 1.20                                     | F 87                | 4               |
|                               |                             |                   |  |                     |                 | 25                            | 1946                        | 56.75             | 1.45                                     | FF 87               | 4               |

F



选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>5.5kW</b>                  |                             |                   |  |                     |                 | <b>7.5kW</b>                  |                             |                   |  |                     |                 |
| 29                            | 1724                        | 50.29             | 1.64                                     |                     |                 | 8.4                           | 8023                        | 85.80             | 2.1                                      |                     |                 |
| 32                            | 1550                        | 45.22             | 1.82                                     |                     |                 | 9.2                           | 7337                        | 78.46             | 2.3                                      | FA 157              | 8               |
| 37                            | 1346                        | 39.25             | 2.1                                      | FA 87               | 4               | 10.5                          | 6385                        | 68.28             | 2.7                                      | FAF157              | 8               |
| 41                            | 1205                        | 35.14             | 2.3                                      | FAF87               | 4               | 12                            | 5634                        | 60.25             | 3.0                                      | F 157               | 8               |
| 49                            | 1000                        | 29.16             | 2.8                                      | F 87                | 4               | 13.8                          | 4885                        | 52.24             | 3.5                                      | FF 157              | 8               |
| 42                            | 1170                        | 34.11             | 2.1                                      | FF 87               | 4               | 15.5                          | 4346                        | 46.48             | 3.9                                      |                     |                 |
| 51                            | 974                         | 28.41             | 2.4                                      |                     |                 | 18                            | 3746                        | 40.06             | 4.5                                      |                     |                 |
| 54                            | 909                         | 26.50             | 3.1                                      |                     |                 | 3.6                           | 18709                       | 266.76            | 0.90                                     |                     |                 |
| 61                            | 812                         | 23.68             | 3.5                                      |                     |                 | 4.4                           | 15317                       | 218.40            | 1.11                                     |                     |                 |
| 30                            | 1654                        | 48.24             | 0.85                                     |                     |                 | 5.4                           | 12425                       | 177.17            | 1.36                                     |                     |                 |
| 33                            | 1490                        | 43.46             | 0.95                                     |                     |                 | 5.8                           | 11525                       | 164.33            | 1.47                                     |                     |                 |
| 38                            | 1307                        | 38.12             | 1.08                                     |                     |                 | 6.8                           | 9945                        | 141.80            | 1.70                                     | FA 157              | 6               |
| 43                            | 1153                        | 33.64             | 1.22                                     |                     |                 | 7.7                           | 8776                        | 125.14            | 1.93                                     | FAF157              | 6               |
| 48                            | 1022                        | 29.82             | 1.38                                     | FA 77               | 4               | 8.8                           | 7609                        | 108.49            | 2.2                                      | F 157               | 6               |
| 56                            | 874                         | 25.50             | 1.61                                     | FAF77               | 4               | 9.9                           | 6770                        | 96.53             | 2.5                                      | FF 157              | 6               |
| 57                            | 873                         | 25.47             | 1.61                                     | F 77                | 4               | 11                            | 6095                        | 86.90             | 2.8                                      |                     |                 |
| 67                            | 735                         | 21.43             | 1.92                                     | FF 77               | 4               | 12                            | 5573                        | 79.47             | 3.0                                      |                     |                 |
| 73                            | 675                         | 19.70             | 2.1                                      |                     |                 | 14                            | 4850                        | 69.15             | 3.5                                      |                     |                 |
| 82                            | 600                         | 17.49             | 2.4                                      |                     |                 | 16                            | 4280                        | 61.02             | 4.0                                      |                     |                 |
| 92                            | 536                         | 15.64             | 2.6                                      |                     |                 | 18                            | 3711                        | 52.91             | 4.6                                      |                     |                 |
| 102                           | 482                         | 14.06             | 2.9                                      |                     |                 | 5.7                           | 11816                       | 126.36            | 0.95                                     | FA 127              | 8               |
| 118                           | 418                         | 12.20             | 3.4                                      |                     |                 | 6.2                           | 10776                       | 115.24            | 1.05                                     | FAF127              | 8               |
| 65                            | 756                         | 22.05             | 1.02                                     |                     |                 | 7.2                           | 9326                        | 99.73             | 1.21                                     | F 127               | 8               |
| 69                            | 717                         | 20.9              | 1.08                                     |                     |                 | 8.2                           | 8229                        | 88.00             | 1.37                                     | FF 127              | 8               |
| 79                            | 627                         | 18.29             | 1.23                                     |                     |                 | 5.6                           | 12086                       | 172.33            | 0.93                                     | FA 127              | 6               |
| 87                            | 565                         | 16.48             | 1.36                                     |                     |                 | 6.2                           | 10857                       | 154.81            | 1.04                                     | FAF127              | 6               |
| 100                           | 496                         | 14.46             | 1.50                                     |                     |                 | 7.6                           | 8816                        | 125.71            | 1.28                                     | F 127               | 6               |
| 113                           | 438                         | 12.76             | 1.55                                     | FA 67               | 4               | 8.3                           | 8135                        | 116.00            | 1.39                                     | FF 127              | 6               |
| 127                           | 388                         | 11.31             | 1.70                                     | FAF67               | 4               | 8.5                           | 7947                        | 172.33            | 1.42                                     | FA 127              | 4               |
| 149                           | 331                         | 9.66              | 1.76                                     | F 67                | 4               | 9.4                           | 7139                        | 154.81            | 1.58                                     | FAF127              | 4               |
| 150                           | 329                         | 9.61              | 2.0                                      | FF 67               | 4               | 12                            | 5797                        | 125.71            | 1.95                                     | F 127               | 4               |
| 158                           | 312                         | 9.11              | 2.1                                      |                     |                 |                               |                             |                   |  | FF 127              | 4               |
| 181                           | 273                         | 7.97              | 2.3                                      |                     |                 | 8.2                           | 8238                        | 178.64            | 0.88                                     |                     |                 |
| 201                           | 246                         | 7.18              | 2.4                                      |                     |                 | 9.1                           | 7437                        | 161.28            | 0.97                                     |                     |                 |
| 229                           | 216                         | 6.30              | 2.7                                      |                     |                 | 10                            | 6755                        | 146.49            | 1.07                                     |                     |                 |
| 259                           | 191                         | 5.56              | 2.9                                      |                     |                 | 11                            | 5994                        | 129.97            | 1.20                                     | FA 107              | 4               |
| 292                           | 169                         | 4.93              | 3.1                                      |                     |                 | 12                            | 5439                        | 117.94            | 1.33                                     | FAF107              | 4               |
| 342                           | 144                         | 4.21              | 3.3                                      |                     |                 | 14                            | 4675                        | 101.38            | 1.54                                     | F 107               | 4               |
| 86                            | 576                         | 16.81             | 0.98                                     |                     |                 | 16                            | 4264                        | 92.47             | 1.69                                     | FF 107              | 4               |
| 91                            | 544                         | 15.88             | 1.04                                     |                     |                 | 16                            | 4081                        | 88.49             | 1.77                                     |                     |                 |
| 107                           | 464                         | 13.52             | 1.22                                     |                     |                 | 17                            | 3873                        | 83.99             | 1.86                                     |                     |                 |
| 117                           | 421                         | 12.29             | 1.34                                     | FA 57               | 4               | 20                            | 3436                        | 74.52             | 2.1                                      |                     |                 |
| 135                           | 365                         | 10.64             | 1.55                                     | FAF57               | 4               | 22                            | 3118                        | 67.62             | 2.3                                      |                     |                 |
| 176                           | 281                         | 8.19              | 1.41                                     | F 57                | 4               | 15                            | 4487                        | 97.31             | 0.90                                     |                     |                 |
| 186                           | 265                         | 7.73              | 1.49                                     | FF 57               | 4               | 16                            | 4186                        | 90.77             | 0.97                                     |                     |                 |
| 219                           | 226                         | 6.58              | 1.75                                     |                     |                 | 17                            | 4015                        | 87.06             | 1.01                                     |                     |                 |
| 241                           | 205                         | 5.98              | 1.93                                     |                     |                 | 18                            | 3741                        | 81.13             | 1.08                                     |                     |                 |
| 278                           | 178                         | 5.18              | 2.2                                      |                     |                 | 19                            | 3523                        | 76.40             | 1.15                                     |                     |                 |
| <b>7.5kW</b>                  |                             |                   |  |                     |                 | 21                            | 3229                        | 70.03             | 1.25                                     | FA 97               | 4               |
| 4.6                           | 13812                       | 312               | 0.82                                     | FA 127R87           | 4               | 22                            | 3050                        | 66.14             | 1.33                                     | FAF97               | 4               |
| 4.9                           | 12971                       | 293               | 0.87                                     | FAF127R87           | 4               | 25                            | 2705                        | 58.65             | 1.49                                     | F 97                | 4               |
| 5.5                           | 11598                       | 262               | 0.97                                     | F 127R87            | 4               | 28                            | 2445                        | 53.03             | 1.65                                     | FF 97               | 4               |
| 6.4                           | 10005                       | 226               | 1.13                                     | FF 127R87           | 4               | 32                            | 2072                        | 44.94             | 1.95                                     |                     |                 |
| 7.2                           | 8854                        | 200               | 1.27                                     |                     |                 | 33                            | 2023                        | 43.87             | 2.0                                      |                     |                 |
| 3.3                           | 20350                       | 217.62            | 0.83                                     |                     |                 | 37                            | 1810                        | 39.26             | 2.2                                      |                     |                 |
| 4.0                           | 16664                       | 178.20            | 1.02                                     |                     |                 | 40                            | 1704                        | 36.96             | 2.4                                      |                     |                 |
| 4.4                           | 15238                       | 162.96            | 1.11                                     | FA 157              | 8               | 43                            | 1580                        | 34.26             | 2.6                                      |                     |                 |
| 5.1                           | 13260                       | 141.80            | 1.28                                     | FAF157              | 8               | 44                            | 1514                        | 32.83             | 2.7                                      |                     |                 |
| 5.8                           | 11702                       | 125.14            | 1.45                                     | F 157               | 8               | 48                            | 1416                        | 30.70             | 2.9                                      |                     |                 |
| 6.6                           | 10145                       | 108.49            | 1.67                                     | FF 157              | 8               |                               |                             |                   |  |                     |                 |
| 7.5                           | 9027                        | 96.53             | 1.87                                     |                     |                 |                               |                             |                   |  |                     |                 |

F

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>7.5kW</b>                  |                             |                   |  |                     |                 | <b>11kW</b>                   |                             |                   |  |                     |                 |
| 26                            | 2617                        | 56.75             | 1.08                                     |                     |                 | 15                            | 6529                        | 96.53             | 2.6                                      | FA 157              | 4               |
| 29                            | 2319                        | 50.29             | 1.19                                     |                     |                 | 17                            | 5877                        | 86.90             | 2.9                                      | FAF157              | 4               |
| 32                            | 2085                        | 45.22             | 1.27                                     |                     |                 | 18                            | 5375                        | 79.47             | 3.1                                      | F 157               | 4               |
| 37                            | 1810                        | 39.25             | 1.41                                     |                     |                 | 21                            | 4677                        | 69.15             | 3.6                                      | FF 157              | 4               |
| 42                            | 1620                        | 35.14             | 1.51                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 50                            | 1345                        | 29.16             | 1.75                                     | FA 87               | 4               | 7.7                           | 12864                       | 125.71            | 0.88                                     |                     |                 |
| 51                            | 1327                        | 28.41             | 1.74                                     | FAF87               | 4               | 8.4                           | 11732                       | 116.00            | 0.96                                     | FA 127              | 6               |
| 55                            | 1222                        | 26.50             | 2.3                                      | F 87                | 4               | 10                            | 10153                       | 99.73             | 1.11                                     | FAF127              | 6               |
| 62                            | 1092                        | 23.68             | 2.6                                      | FF 87               | 4               | 11                            | 8958                        | 88.00             | 1.26                                     | F 127               | 6               |
| 68                            | 983                         | 21.32             | 2.9                                      |                     |                 | 13                            | 7737                        | 76.00             | 1.46                                     | FF 127              | 6               |
| 76                            | 890                         | 19.31             | 3.2                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 85                            | 789                         | 17.12             | 3.6                                      |                     |                 | 8.5                           | 11656                       | 172.33            | 0.97                                     |                     |                 |
| 94                            | 714                         | 15.48             | 4.0                                      |                     |                 | 9.4                           | 10471                       | 154.81            | 1.08                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 12                            | 8502                        | 125.71            | 1.33                                     | FA 127              | 4               |
| 43                            | 1551                        | 33.64             | 0.91                                     |                     |                 | 13                            | 7846                        | 116.00            | 1.44                                     | FAF127              | 4               |
| 49                            | 1375                        | 29.82             | 1.03                                     |                     |                 | 15                            | 6745                        | 99.73             | 1.67                                     | F 127               | 4               |
| 57                            | 1176                        | 25.50             | 1.16                                     |                     |                 | 17                            | 5952                        | 88.00             | 1.90                                     | FF 127              | 4               |
| 57                            | 1175                        | 25.47             | 1.20                                     |                     |                 | 19                            | 5140                        | 76.00             | 2.2                                      |                     |                 |
| 68                            | 988                         | 21.43             | 1.43                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 74                            | 908                         | 19.70             | 1.55                                     |                     |                 | 12                            | 7977                        | 117.94            | 0.91                                     |                     |                 |
| 83                            | 807                         | 17.49             | 1.75                                     |                     |                 | 14                            | 6857                        | 101.38            | 1.05                                     |                     |                 |
| 93                            | 721                         | 15.64             | 1.95                                     | FA 77               | 4               | 16                            | 6254                        | 92.47             | 1.15                                     |                     |                 |
| 104                           | 648                         | 14.06             | 2.2                                      | FAF77               | 4               | 17                            | 5681                        | 83.99             | 1.27                                     |                     |                 |
| 120                           | 563                         | 12.20             | 2.5                                      | F 77                | 4               | 20                            | 5040                        | 74.52             | 1.43                                     | FA 107              | 4               |
| 134                           | 504                         | 10.93             | 2.8                                      | FF 77               | 4               | 22                            | 4573                        | 67.62             | 1.58                                     | FAF107              | 4               |
| 156                           | 431                         | 9.35              | 2.4                                      |                     |                 | 25                            | 3931                        | 58.12             | 1.84                                     | F 107               | 4               |
| 176                           | 383                         | 8.30              | 2.7                                      |                     |                 | 29                            | 3431                        | 50.73             | 2.1                                      | FF 107              | 4               |
| 197                           | 342                         | 7.42              | 3.0                                      |                     |                 | 34                            | 2910                        | 43.03             | 2.5                                      |                     |                 |
| 219                           | 308                         | 6.67              | 3.3                                      |                     |                 | 43                            | 2285                        | 33.78             | 3.2                                      |                     |                 |
| 252                           | 267                         | 5.79              | 3.8                                      |                     |                 | 53                            | 1855                        | 27.43             | 3.9                                      |                     |                 |
| 281                           | 239                         | 5.19              | 4.2                                      |                     |                 | 58                            | 1712                        | 25.31             | 4.2                                      |                     |                 |
| 340                           | 198                         | 4.30              | 4.8                                      |                     |                 |                               |                             |                   |  |                     |                 |
| <b>11kW</b>                   |                             |                   |  |                     |                 | <b>11kW</b>                   |                             |                   |  |                     |                 |
| 4.9                           | 19275                       | 301               | 0.88                                     |                     |                 | 22                            | 4473                        | 66.14             | 0.90                                     |                     |                 |
| 5.4                           | 17418                       | 272               | 0.97                                     | FA 157R97           | 4               | 25                            | 3967                        | 58.65             | 1.02                                     |                     |                 |
| 6.3                           | 14793                       | 231               | 1.14                                     | FAF157R97           | 4               | 28                            | 3587                        | 53.03             | 1.13                                     |                     |                 |
| 7.2                           | 12936                       | 202               | 1.31                                     | F 157R97            | 4               | 32                            | 3040                        | 44.94             | 1.33                                     | FA 97               | 4               |
| 7.4                           | 12551                       | 196               | 1.35                                     | FF 157R97           | 4               | 37                            | 2655                        | 39.26             | 1.52                                     | FAF97               | 4               |
|                               |                             |                   |  |                     |                 | 43                            | 2317                        | 34.26             | 1.74                                     | F 97                | 4               |
| 6.5                           | 14472                       | 226               | 0.78                                     | FA 127R87           | 4               | 44                            | 2220                        | 32.83             | 1.82                                     | FF 97               | 4               |
| 7.3                           | 12807                       | 200               | 0.88                                     | FAF127R87           | 4               | 48                            | 2076                        | 30.70             | 1.95                                     |                     |                 |
| 8.7                           | 10758                       | 168               | 1.05                                     | F 127R87            | 4               | 53                            | 1875                        | 27.72             | 2.2                                      |                     |                 |
|                               |                             |                   |  | FF 127R87           | 4               | 58                            | 1703                        | 25.18             | 2.4                                      |                     |                 |
| 5.1                           | 19181                       | 141.80            | 0.88                                     | FA 157              | 8               | 65                            | 1511                        | 22.34             | 2.7                                      |                     |                 |
| 5.8                           | 16928                       | 125.14            | 1.00                                     | FAF157              | 8               |                               |                             |                   |  |                     |                 |
| 6.7                           | 14675                       | 108.49            | 1.15                                     | F 157               | 8               | 37                            | 2655                        | 39.25             | 0.96                                     |                     |                 |
| 7.6                           | 13058                       | 96.53             | 1.30                                     | FF 157              | 8               | 42                            | 2377                        | 35.14             | 1.03                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 50                            | 1972                        | 29.16             | 1.20                                     |                     |                 |
| 5.5                           | 18036                       | 177.17            | 0.94                                     |                     |                 | 55                            | 1792                        | 26.50             | 1.57                                     | FA 87               | 4               |
| 5.9                           | 16729                       | 164.33            | 1.01                                     |                     |                 | 62                            | 1602                        | 23.68             | 1.76                                     | FAF87               | 4               |
| 6.8                           | 14435                       | 141.80            | 1.17                                     | FA 157              | 6               | 68                            | 1442                        | 21.32             | 1.96                                     | F 87                | 4               |
| 7.8                           | 12739                       | 125.14            | 1.33                                     | FAF157              | 6               | 76                            | 1306                        | 19.31             | 2.16                                     | FF 87               | 4               |
| 8.9                           | 11044                       | 108.49            | 1.53                                     | F 157               | 6               | 85                            | 1158                        | 17.12             | 2.4                                      |                     |                 |
| 10                            | 9827                        | 96.53             | 1.72                                     | FF 157              | 6               | 94                            | 1047                        | 15.48             | 2.7                                      |                     |                 |
| 11                            | 8847                        | 86.90             | 1.91                                     |                     |                 | 111                           | 887                         | 13.12             | 3.2                                      |                     |                 |
| 12                            | 8090                        | 79.47             | 2.1                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 5.5                           | 18042                       | 266.76            | 0.94                                     |                     |                 | 74                            | 1332                        | 19.70             | 1.06                                     |                     |                 |
| 6.7                           | 14776                       | 218.46            | 1.15                                     |                     |                 | 83                            | 1183                        | 17.49             | 1.19                                     |                     |                 |
| 8.2                           | 12053                       | 177.17            | 1.40                                     | FA 157              | 4               | 93                            | 1058                        | 15.64             | 1.33                                     |                     |                 |
| 8.9                           | 11114                       | 164.33            | 1.52                                     | FAF157              | 4               | 104                           | 951                         | 14.06             | 1.48                                     |                     |                 |
| 10                            | 9591                        | 141.80            | 1.76                                     | F 157               | 4               | 120                           | 825                         | 12.20             | 1.61                                     | FA 77               | 4               |
| 12                            | 8464                        | 125.14            | 2.0                                      | FF 157              | 4               | 134                           | 739                         | 10.93             | 1.71                                     | FAF77               | 4               |
| 13                            | 7338                        | 108.49            | 2.3                                      |                     |                 | 156                           | 632                         | 9.35              | 1.81                                     | F 77                | 4               |
|                               |                             |                   |  |                     |                 | 176                           | 561                         | 8.30              | 1.91                                     | FF 77               | 4               |
|                               |                             |                   |  |                     |                 | 197                           | 502                         | 7.42              | 2.0                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 219                           | 451                         | 6.67              | 2.3                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 252                           | 392                         | 5.79              | 2.6                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 281                           | 351                         | 5.19              | 2.9                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 340                           | 291                         | 4.30              | 3.3                                      |                     |                 |

F



选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机 型 号<br>Type<br>Type | 极 数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机 型 号<br>Type<br>Type | 极 数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|-----------------------|------------------|-------------------------------|-----------------------------|-------------------|--|-----------------------|------------------|
| <b>18.5kW</b>                 |                             |                   |  |                       |                  | <b>22kW</b>                   |                             |                   |  |                       |                  |
| 69                            | 2409                        | 21.32             | 1.17                                     |                       |                  | 112                           | 1763                        | 13.12             | 1.27                                     |                       |                  |
| 76                            | 2182                        | 19.31             | 1.29                                     |                       |                  | 128                           | 1540                        | 11.46             | 1.43                                     |                       |                  |
| 86                            | 1934                        | 17.12             | 1.46                                     |                       |                  | 153                           | 1287                        | 9.58              | 1.58                                     |                       |                  |
| 95                            | 1749                        | 15.48             | 1.50                                     |                       |                  | 174                           | 1137                        | 8.46              | 1.60                                     | FA 87                 | 4                |
| 112                           | 1482                        | 13.12             | 1.61                                     | FA 87                 | 4                | 196                           | 1008                        | 7.50              | 1.70                                     | FAF87                 | 4                |
| 128                           | 1295                        | 11.46             | 1.70                                     | FAF87                 | 4                | 217                           | 911                         | 6.78              | 1.83                                     | F 87                  | 4                |
| 153                           | 1082                        | 9.58              | 1.80                                     | F 87                  | 4                | 256                           | 773                         | 5.75              | 1.86                                     | FF 87                 | 4                |
| 174                           | 956                         | 8.46              | 1.88                                     | FF 87                 | 4                | 293                           | 674                         | 5.02              | 2.1                                      |                       |                  |
| 196                           | 847                         | 7.50              | 1.90                                     |                       |                  | 350                           | 564                         | 4.20              | 2.4                                      |                       |                  |
| 217                           | 766                         | 6.78              | 2.0                                      |                       |                  | <b>30kW</b>                   |                             |                   |  |                       |                  |
| 256                           | 650                         | 5.75              | 2.2                                      |                       |                  | 14                            | 19876                       | 108.49            | 0.85                                     |                       |                  |
| 296                           | 567                         | 5.02              | 2.5                                      |                       |                  | 15                            | 17685                       | 96.53             | 0.96                                     |                       |                  |
| 350                           | 474                         | 4.20              | 2.9                                      |                       |                  | 17                            | 15920                       | 86.90             | 1.06                                     |                       |                  |
| <b>22kW</b>                   |                             |                   |  |                       |                  | 18                            | 14559                       | 79.47             | 1.16                                     | FA 157                | 4                |
| 10                            | 19654                       | 96.53             | 0.86                                     | FA 157                | 6                | 21                            | 12669                       | 69.15             | 1.34                                     | FAF157                | 4                |
| 11                            | 17693                       | 86.90             | 0.96                                     | FAF157                | 6                | 24                            | 11179                       | 61.02             | 1.51                                     | F 157                 | 4                |
| 12                            | 16180                       | 79.47             | 1.05                                     | F 157                 | 6                | 28                            | 9693                        | 52.91             | 1.75                                     | FF 157                | 4                |
| 14                            | 14079                       | 69.15             | 1.20                                     | FF 157                | 6                | 31                            | 8623                        | 47.07             | 2.0                                      |                       |                  |
| 10                            | 19051                       | 141.80            | 0.89                                     |                       |                  | 36                            | 7433                        | 40.57             | 2.3                                      |                       |                  |
| 12                            | 16813                       | 125.14            | 1.01                                     |                       |                  | 19                            | 13924                       | 76.00             | 0.81                                     |                       |                  |
| 14                            | 14576                       | 108.49            | 1.16                                     |                       |                  | 21                            | 12938                       | 70.62             | 0.87                                     |                       |                  |
| 15                            | 12969                       | 96.53             | 1.30                                     |                       |                  | 23                            | 11800                       | 64.41             | 0.96                                     |                       |                  |
| 17                            | 11675                       | 86.90             | 1.45                                     | FA 157                | 4                | 26                            | 10212                       | 55.74             | 1.10                                     |                       |                  |
| 18                            | 10677                       | 79.47             | 1.58                                     | FAF157                | 4                | 30                            | 9012                        | 49.19             | 1.25                                     | FA 127                | 4                |
| 21                            | 9290                        | 69.15             | 1.82                                     | F 157                 | 4                | 35                            | 7783                        | 42.48             | 1.45                                     | FAF127                | 4                |
| 24                            | 8198                        | 61.02             | 2.1                                      | FF 157                | 4                | 39                            | 6883                        | 37.57             | 1.58                                     | F 127                 | 4                |
| 28                            | 7108                        | 52.91             | 2.4                                      |                       |                  | 47                            | 5786                        | 31.58             | 1.6                                      | FF 127                | 4                |
| 31                            | 6324                        | 47.07             | 2.7                                      |                       |                  | 54                            | 4961                        | 26.92             | 1.95                                     |                       |                  |
| 36                            | 5451                        | 40.57             | 3.1                                      |                       |                  | 58                            | 4672                        | 25.50             | 2.4                                      |                       |                  |
| 45                            | 4430                        | 32.97             | 3.8                                      |                       |                  | 59                            | 4536                        | 24.97             | 2.8                                      |                       |                  |
| 15                            | 13399                       | 99.73             | 0.84                                     |                       |                  | 68                            | 3948                        | 21.55             | 2.9                                      |                       |                  |
| 17                            | 11823                       | 88.00             | 0.95                                     |                       |                  | 77                            | 3483                        | 19.01             | 3.2                                      |                       |                  |
| 19                            | 10211                       | 76.00             | 1.10                                     | FA 127                | 4                | 34                            | 7883                        | 43.03             | 0.92                                     |                       |                  |
| 21                            | 9488                        | 70.62             | 1.19                                     | FAF127                | 4                | 39                            | 6890                        | 37.61             | 1.05                                     |                       |                  |
| 23                            | 8653                        | 64.41             | 1.30                                     | F 127                 | 4                | 46                            | 5826                        | 31.80             | 1.24                                     |                       |                  |
| 26                            | 7489                        | 55.74             | 1.51                                     | FF 127                | 4                | 54                            | 5025                        | 27.43             | 1.44                                     | FA 107                | 4                |
| 30                            | 6609                        | 49.19             | 1.71                                     |                       |                  | 58                            | 4637                        | 25.31             | 1.56                                     | FAF107                | 4                |
| 35                            | 5707                        | 42.48             | 1.98                                     |                       |                  | 68                            | 3987                        | 21.76             | 1.81                                     | F 107                 | 4                |
| 25                            | 7808                        | 58.12             | 0.92                                     |                       |                  | 77                            | 3518                        | 19.20             | 2.1                                      | FF 107                | 4                |
| 29                            | 6816                        | 50.73             | 1.06                                     |                       |                  | 89                            | 3038                        | 16.58             | 2.4                                      |                       |                  |
| 34                            | 5781                        | 43.03             | 1.25                                     |                       |                  | 100                           | 2688                        | 14.67             | 2.7                                      |                       |                  |
| 39                            | 5053                        | 37.61             | 1.43                                     | FA 107                | 4                | 119                           | 2259                        | 12.33             | 2.9                                      |                       |                  |
| 44                            | 4540                        | 33.78             | 1.59                                     | FAF107                | 4                | 148                           | 1825                        | 9.96              | 3.3                                      |                       |                  |
| 46                            | 4272                        | 31.08             | 1.69                                     | F 107                 | 4                | 66                            | 4093                        | 22.34             | 0.99                                     |                       |                  |
| 54                            | 3685                        | 27.43             | 1.96                                     | FF 107                | 4                | 73                            | 3714                        | 20.27             | 1.09                                     |                       |                  |
| 58                            | 3400                        | 25.31             | 2.1                                      |                       |                  | 84                            | 3191                        | 17.42             | 1.27                                     |                       |                  |
| 68                            | 2923                        | 21.76             | 2.5                                      |                       |                  | 97                            | 2787                        | 15.21             | 1.31                                     |                       |                  |
| 77                            | 2580                        | 19.20             | 2.8                                      |                       |                  | 114                           | 2363                        | 12.90             | 1.44                                     | FA 97                 | 4                |
| 53                            | 3724                        | 27.72             | 1.09                                     |                       |                  | 130                           | 2067                        | 11.28             | 1.45                                     | FAF97                 | 4                |
| 58                            | 3383                        | 25.18             | 1.19                                     |                       |                  | 159                           | 1698                        | 9.27              | 1.67                                     | F 97                  | 4                |
| 66                            | 3001                        | 22.34             | 1.35                                     | FA 97                 | 4                | 175                           | 1541                        | 8.41              | 1.83                                     | FF 97                 | 4                |
| 73                            | 2723                        | 20.27             | 1.48                                     | FAF97                 | 4                | 203                           | 1325                        | 7.23              | 1.85                                     |                       |                  |
| 84                            | 2340                        | 17.42             | 1.73                                     | F 97                  | 4                | 233                           | 1156                        | 6.31              | 1.86                                     |                       |                  |
| 97                            | 2043                        | 15.21             | 2.0                                      | FF 97                 | 4                | 275                           | 980                         | 5.35              | 2.1                                      |                       |                  |
| 114                           | 1733                        | 12.90             | 2.3                                      |                       |                  | 314                           | 857                         | 4.68              | 2.2                                      |                       |                  |
| 130                           | 1515                        | 11.28             | 2.7                                      |                       |                  | 69                            | 2864                        | 21.32             | 0.98                                     | FA 87                 | 4                |
| 69                            | 2864                        | 21.32             | 0.98                                     | FA 87                 | 4                | 76                            | 2594                        | 19.31             | 1.09                                     | FAF87                 | 4                |
| 76                            | 2594                        | 19.31             | 1.09                                     | FAF87                 | 4                | 86                            | 2300                        | 17.12             | 1.23                                     | F 87                  | 4                |
| 86                            | 2300                        | 17.12             | 1.23                                     | F 87                  | 4                | 95                            | 2080                        | 15.48             | 1.36                                     | FF 87                 | 4                |
| 95                            | 2080                        | 15.48             | 1.36                                     | FF 87                 | 4                |                               |                             |                   |  |                       |                  |

F

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>s</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>37kW</b>                   |                             |                   |  |                     |                 | <b>45kW</b>                   |                             |                   |  |                     |                 |
| 17                            | 19503                       | 86.90             | 0.87                                     |                     |                 | 54                            | 7525                        | 27.57             | 0.98                                     |                     |                 |
| 19                            | 17835                       | 79.47             | 0.95                                     |                     |                 | 59                            | 6862                        | 25.14             | 1.07                                     |                     |                 |
| 21                            | 15519                       | 69.15             | 1.09                                     |                     |                 | 68                            | 5939                        | 21.76             | 1.24                                     |                     |                 |
| 24                            | 13694                       | 61.02             | 1.24                                     | FA 157              | 4               | 77                            | 5241                        | 19.2              | 1.41                                     |                     |                 |
| 28                            | 11874                       | 52.91             | 1.42                                     | FAF157              | 4               | 89                            | 4525                        | 16.58             | 1.63                                     | FA 107              | 4               |
| 31                            | 10564                       | 47.07             | 1.60                                     | F 157               | 4               | 101                           | 4004                        | 14.67             | 1.80                                     | FAF107              | 4               |
| 36                            | 9105                        | 40.57             | 1.86                                     | FF 157              | 4               | 120                           | 3365                        | 12.33             | 1.90                                     | F 107               | 4               |
| 45                            | 7399                        | 32.97             | 2.3                                      |                     |                 | 149                           | 2719                        | 9.96              | 2.0                                      | FF 107              | 4               |
| 53                            | 6275                        | 27.96             | 2.7                                      |                     |                 | 153                           | 2634                        | 9.65              | 2.1                                      |                     |                 |
|                               |                             |                   |  |                     |                 | 177                           | 2276                        | 8.34              | 2.2                                      |                     |                 |
| 15                            | 22261                       | 99.19             | 0.51                                     |                     |                 | 201                           | 2012                        | 7.37              | 2.3                                      |                     |                 |
| 27                            | 12509                       | 55.74             | 0.90                                     |                     |                 | 239                           | 1692                        | 6.20              | 2.6                                      |                     |                 |
| 35                            | 9534                        | 42.48             | 1.18                                     |                     |                 | <b>55kW</b>                   |                             |                   |  |                     |                 |
| 39                            | 8432                        | 37.57             | 1.31                                     |                     |                 | 24                            | 20357                       | 61.02             | 0.83                                     |                     |                 |
| 47                            | 7087                        | 31.58             | 1.34                                     |                     |                 | 28                            | 17651                       | 52.91             | 0.96                                     |                     |                 |
| 55                            | 6077                        | 26.92             | 1.86                                     |                     |                 | 31                            | 15703                       | 47.07             | 1.08                                     | FA 157              | 4               |
| 60                            | 5557                        | 24.97             | 1.45                                     | FA 127              | 4               | 36                            | 13534                       | 40.57             | 1.25                                     | FAF157              | 4               |
| 69                            | 4836                        | 21.55             | 2.3                                      | FAF127              | 4               | 45                            | 10999                       | 32.97             | 1.54                                     | F 157               | 4               |
| 78                            | 4266                        | 19.01             | 2.4                                      | F 127               | 4               | 53                            | 9328                        | 27.96             | 1.66                                     | FF 157              | 4               |
| 90                            | 3699                        | 16.48             | 2.8                                      | FF 127              | 4               | 58                            | 8484                        | 25.43             | 1.81                                     |                     |                 |
| 101                           | 3292                        | 14.67             | 3.1                                      |                     |                 | 67                            | 7393                        | 22.16             | 2.3                                      |                     |                 |
| 117                           | 2837                        | 12.64             | 3.2                                      |                     |                 | 75                            | 6595                        | 19.77             | 2.4                                      |                     |                 |
| 144                           | 2305                        | 10.27             | 3.3                                      |                     |                 | 88                            | 5621                        | 16.85             | 3.0                                      |                     |                 |
| 169                           | 1966                        | 8.76              | 3.3                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 190                           | 1748                        | 7.79              | 3.9                                      |                     |                 | 39                            | 12534                       | 37.57             | 0.90                                     |                     |                 |
|                               |                             |                   |  |                     |                 | 47                            | 10535                       | 31.58             | 1.07                                     |                     |                 |
| 54                            | 6156                        | 27.43             | 1.20                                     |                     |                 | 58                            | 8507                        | 25.5              | 1.33                                     |                     |                 |
| 58                            | 5680                        | 25.31             | 1.30                                     |                     |                 | 69                            | 7189                        | 21.55             | 1.57                                     |                     |                 |
| 68                            | 4883                        | 21.76             | 1.51                                     |                     |                 | 78                            | 6342                        | 19.01             | 1.63                                     |                     |                 |
| 77                            | 4309                        | 19.20             | 1.7                                      |                     |                 | 90                            | 5498                        | 16.48             | 1.88                                     | FA 127              | 4               |
| 89                            | 3721                        | 16.58             | 2.0                                      | FA 107              | 4               | 101                           | 4894                        | 14.67             | 2.1                                      | FAF127              | 4               |
| 101                           | 3292                        | 14.67             | 2.1                                      | FAF107              | 4               | 117                           | 4217                        | 12.64             | 2.2                                      | F 127               | 4               |
| 120                           | 2767                        | 12.33             | 2.2                                      | F 107               | 4               | 144                           | 3426                        | 10.27             | 2.3                                      | FF 127              | 4               |
| 149                           | 2235                        | 9.96              | 2.3                                      | FF 107              | 4               | 169                           | 2922                        | 8.76              | 2.4                                      |                     |                 |
| 153                           | 2166                        | 9.65              | 2.4                                      |                     |                 | 190                           | 2599                        | 7.79              | 2.6                                      |                     |                 |
| 177                           | 1872                        | 8.34              | 2.6                                      |                     |                 | 220                           | 2242                        | 6.72              | 2.9                                      |                     |                 |
| 201                           | 1654                        | 7.37              | 2.7                                      |                     |                 | 271                           | 1821                        | 5.46              | 3.1                                      |                     |                 |
| 239                           | 1391                        | 6.20              | 3.1                                      |                     |                 | 320                           | 1545                        | 4.63              | 3.7                                      |                     |                 |
|                               |                             |                   |  |                     |                 | <b>75kW</b>                   |                             |                   |  |                     |                 |
| 21                            | 18874                       | 69.15             | 0.90                                     |                     |                 | 31                            | 21413                       | 47.07             | 0.79                                     |                     |                 |
| 24                            | 16655                       | 61.02             | 1.02                                     | FA 157              | 4               | 36                            | 18456                       | 40.57             | 0.92                                     |                     |                 |
| 28                            | 14442                       | 52.91             | 1.17                                     | FAF157              | 4               | 45                            | 14999                       | 32.97             | 1.13                                     |                     |                 |
| 31                            | 12848                       | 47.07             | 1.32                                     | F 157               | 4               | 53                            | 12719                       | 27.96             | 1.22                                     |                     |                 |
| 36                            | 11074                       | 40.57             | 1.53                                     | FF 157              | 4               | 58                            | 11569                       | 25.43             | 1.33                                     | FA 157              | 4               |
| 45                            | 8999                        | 32.97             | 1.88                                     |                     |                 | 67                            | 10081                       | 22.16             | 1.68                                     | FAF157              | 4               |
| 53                            | 7632                        | 27.96             | 2.2                                      |                     |                 | 75                            | 8994                        | 19.77             | 1.78                                     | F 157               | 4               |
|                               |                             |                   |  |                     |                 | 88                            | 7665                        | 16.85             | 2.2                                      | FF 157              | 4               |
| 30                            | 13426                       | 49.19             | 0.84                                     |                     |                 | 106                           | 6351                        | 13.96             | 2.5                                      |                     |                 |
| 35                            | 11595                       | 42.48             | 0.97                                     |                     |                 | 124                           | 5423                        | 11.92             | 2.8                                      |                     |                 |
| 39                            | 10255                       | 37.57             | 1.08                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 47                            | 8620                        | 31.58             | 1.10                                     |                     |                 | 58                            | 11600                       | 25.50             | 0.97                                     |                     |                 |
| 55                            | 7391                        | 26.92             | 1.18                                     |                     |                 | 69                            | 9803                        | 21.55             | 1.2                                      |                     |                 |
| 58                            | 6960                        | 25.50             | 1.31                                     |                     |                 | 78                            | 8648                        | 19.01             | 1.2                                      |                     |                 |
| 60                            | 6758                        | 24.97             | 1.62                                     |                     |                 | 90                            | 7497                        | 16.48             | 1.4                                      |                     |                 |
| 69                            | 5882                        | 21.55             | 1.92                                     | FA 127              | 4               | 101                           | 6674                        | 14.67             | 1.5                                      | FA 127              | 4               |
| 78                            | 5189                        | 19.01             | 2.0                                      | FAF127              | 4               | 117                           | 5750                        | 12.64             | 1.6                                      | FAF127              | 4               |
| 90                            | 4498                        | 16.48             | 2.3                                      | F 127               | 4               | 144                           | 4672                        | 10.27             | 1.6                                      | F 127               | 4               |
| 101                           | 4004                        | 14.67             | 2.6                                      | FF 127              | 4               | 169                           | 3985                        | 8.76              | 1.7                                      | FF 127              | 4               |
| 117                           | 3450                        | 12.64             | 2.7                                      |                     |                 | 190                           | 3544                        | 7.79              | 1.9                                      |                     |                 |
| 144                           | 2803                        | 10.27             | 2.8                                      |                     |                 | 220                           | 3057                        | 6.72              | 2.2                                      |                     |                 |
| 169                           | 2391                        | 8.76              | 2.9                                      |                     |                 | 271                           | 2484                        | 5.46              | 2.3                                      |                     |                 |
| 190                           | 2126                        | 7.79              | 3.2                                      |                     |                 | 320                           | 2106                        | 4.63              | 2.7                                      |                     |                 |
| 220                           | 1834                        | 6.72              | 3.6                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 271                           | 1490                        | 5.46              | 3.8                                      |                     |                 |                               |                             |                   |  |                     |                 |

F

选型参数表

SELECTION TABLE

| 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p | 输出转速<br>Output speed<br>r/min | 输出扭矩<br>Output torque<br>Nm | 传动比<br>Ratio<br>i | 使用系数<br>Service factor<br>f <sub>B</sub> | 机型号<br>Type<br>Type | 极数<br>Pole<br>p |
|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|-------------------------------|-----------------------------|-------------------|--|---------------------|-----------------|
| <b>90kW</b>                   |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 45                            | 17998                       | 32.97             | 0.94                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 53                            | 15263                       | 27.96             | 1.02                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 58                            | 13882                       | 25.43             | 1.11                                     | FA 157              | 4               |                               |                             |                   |  |                     |                 |
| 67                            | 12097                       | 22.16             | 1.40                                     | FAF157              | 4               |                               |                             |                   |  |                     |                 |
| 75                            | 10792                       | 19.77             | 1.48                                     | F 157               | 4               |                               |                             |                   |  |                     |                 |
| 88                            | 9198                        | 16.85             | 1.84                                     | FF 157              | 4               |                               |                             |                   |  |                     |                 |
| 106                           | 7621                        | 13.96             | 2.1                                      |                     |                 |                               |                             |                   |  |                     |                 |
| 124                           | 6507                        | 11.92             | 2.3                                      |                     |                 |                               |                             |                   |  |                     |                 |
| <b>110kW</b>                  |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 58                            | 13920                       | 25.50             | 0.81                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 69                            | 11764                       | 21.55             | 0.96                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 78                            | 10378                       | 19.01             | 1.00                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 90                            | 8953                        | 16.48             | 1.15                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 101                           | 8008                        | 14.67             | 1.29                                     | FA 127              | 4               |                               |                             |                   |  |                     |                 |
| 117                           | 6900                        | 12.64             | 1.33                                     | FAF127              | 4               |                               |                             |                   |  |                     |                 |
| 144                           | 5606                        | 10.27             | 1.36                                     | F 127               | 4               |                               |                             |                   |  |                     |                 |
| 169                           | 4782                        | 8.76              | 1.59                                     | FF 127              | 4               |                               |                             |                   |  |                     |                 |
| 190                           | 4253                        | 7.79              | 1.60                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 220                           | 3668                        | 6.72              | 1.79                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 271                           | 2981                        | 5.46              | 1.89                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 320                           | 2528                        | 4.63              | 2.2                                      |                     |                 |                               |                             |                   |  |                     |                 |
| <b>132kW</b>                  |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 53                            | 18530                       | 27.96             | 0.91                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 67                            | 14686                       | 22.16             | 1.15                                     | FA 157              | 4               |                               |                             |                   |  |                     |                 |
| 75                            | 13102                       | 19.77             | 1.22                                     | FAF157              | 4               |                               |                             |                   |  |                     |                 |
| 88                            | 11167                       | 16.85             | 1.52                                     | F 157               | 4               |                               |                             |                   |  |                     |                 |
| 107                           | 9252                        | 13.96             | 1.73                                     | FF 157              | 4               |                               |                             |                   |  |                     |                 |
| 125                           | 7900                        | 11.92             | 1.90                                     |                     |                 |                               |                             |                   |  |                     |                 |
| <b>160kW</b>                  |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 67                            | 17623                       | 22.16             | 0.96                                     | FA 157              | 4               |                               |                             |                   |  |                     |                 |
| 75                            | 15723                       | 19.77             | 1.02                                     | FAF157              | 4               |                               |                             |                   |  |                     |                 |
| 88                            | 13400                       | 16.85             | 1.26                                     | F 157               | 4               |                               |                             |                   |  |                     |                 |
| 107                           | 11102                       | 13.96             | 1.44                                     | FF 157              | 4               |                               |                             |                   |  |                     |                 |
| 125                           | 9480                        | 11.92             | 1.59                                     |                     |                 |                               |                             |                   |  |                     |                 |
| <b>200kW</b>                  |                             |                   |  |                     |                 |                               |                             |                   |  |                     |                 |
| 88                            | 16243                       | 16.85             | 1.04                                     | FA 157              | 4               |                               |                             |                   |  |                     |                 |
| 107                           | 13457                       | 13.96             | 1.19                                     | FAF157              | 4               |                               |                             |                   |  |                     |                 |
| 125                           | 11491                       | 11.92             | 1.31                                     | F 157               | 4               |                               |                             |                   |  |                     |                 |
| 88                            | 20304                       | 16.85             | 0.83                                     | FF 157              | 4               |                               |                             |                   |  |                     |                 |
| 107                           | 16821                       | 13.96             | 0.95                                     |                     |                 |                               |                             |                   |  |                     |                 |
| 125                           | 14363                       | 11.92             | 1.05                                     |                     |                 |                               |                             |                   |  |                     |                 |

F

选型参数表

SELECTION TABLE

| Mamax Permissible torque<br>Nm | 输出转速<br>Output speed<br>r/min | 传动比<br>Ratio<br>i | 机型号<br>Type<br>Type                         | 功率<br>Power<br>kW/4p | Mamax Permissible torque<br>Nm | 输出转速<br>Output speed<br>r/min | 传动比<br>Ratio<br>i | 机型号<br>Type<br>Type                             | 功率<br>Power<br>kW/4p                        |
|--------------------------------|-------------------------------|-------------------|---|----------------------|--------------------------------|-------------------------------|-------------------|---|---|
| 200                            | 5.3                           | 262               | FA 37R17<br>FAF37R17<br>F 37R17<br>FF 37R17 | 0.18                 | 1500                           | 2.3                           | 600               | FA 77R37<br>FAF77R37<br>F 77R37<br>FF 77R37     | 0.55  |
|                                | 6.1                           | 229               |   | 2.6                  |                                | 525                           | 0.75              |   |   |
|                                | 7.0                           | 200               |   | 3.0                  |                                | 469                           |                   |   |   |
|                                | 8.2                           | 170               |   | 3.4                  |                                | 412                           |                   |   |   |
|                                | 9.1                           | 153               | 3.9   | 357                  |                                |                               |                   |   |   |
|                                | 10                            | 133               | 4.4   | 314                  |                                |                               |                   |   |   |
| 400                            | 11                            | 129               | FA 47R17<br>FAF47R17<br>F 47R17<br>FF 47R17 | 0.18                 | 3000                           | 0.33                          | 4245              | FA 87R57<br>FAF87R57<br>F 87R57<br>FF 87R57     | 0.37  |
|                                | 2.5                           | 563               |   |                      |                                | 0.37                          | 3721              |   |   |
|                                | 2.9                           | 477               |   |                      |                                | 0.43                          | 3244              |   |   |
|                                | 3.1                           | 445               |   |                      |                                | 0.48                          | 2881              |   |   |
|                                | 3.6                           | 389               |   |                      |                                | 0.54                          | 2575              |   |   |
|                                | 4.0                           | 346               |   | 0.63                 |                                | 2199                          | 0.25              |   |   |
|                                | 4.6                           | 304               |   | 0.72                 |                                | 1930                          |                   |   |   |
|                                | 4.7                           | 293               |   | 0.81                 |                                | 1709                          | 0.55              |   |   |
|                                | 6.0                           | 230               |   | 0.93                 |                                | 1493                          |                   |   |   |
|                                | 6.4                           | 216               |   | 1.1                  |                                | 1300                          |                   |   |   |
|                                | 7.4                           | 188               |   | 1.2                  |                                | 1148                          | 0.75              |   |   |
| 7.9                            | 176                           | 1.4               | 1010  |                      |                                |                               |                   |   |   |
| 9.4                            | 148                           | 1.6               | 887   |                      |                                |                               |                   |   |   |
| 11                             | 130                           | 1.8               | 780   | 0.75                 |                                |                               |                   |   |   |
| 600                            | 1.6                           | 856               | FA 57R37<br>FAF57R37<br>F 57R37<br>FF 57R37 |                      | 0.18                           | 4300                          | 2.1               | 674   | FA 97R57<br>FAF97R57<br>F 97R57<br>FF 97R57 |
|                                | 1.9                           | 749               |   | 2.3                  |                                |                               | 609               |   |   |
|                                | 2.1                           | 658               |   | 2.7                  |                                |                               | 515               |   |   |
|                                | 2.5                           | 549               |   | 3.1                  |                                |                               | 452               |   |   |
|                                | 2.9                           | 483               |   | 4.0                  | 345                            |                               | 1.1               |   |   |
|                                | 3.3                           | 426               |   | 0.21                 | 6532                           |                               |                   |   |   |
|                                | 3.6                           | 382               |   | 0.24                 | 5696                           |                               | 0.25              |   |   |
|                                | 4.2                           | 330               |   | 0.28                 | 5032                           |                               |                   |   |   |
|                                | 4.7                           | 298               |   | 0.32                 | 4375                           |                               | 0.37              |   |   |
|                                | 5.3                           | 262               |   | 0.35                 | 3946                           |                               |                   |   |   |
|                                | 6.2                           | 226               |   | 0.41                 | 3404                           |                               |                   |   |   |
|                                | 7.0                           | 200               |   | 0.47                 | 2949                           |                               | 0.55              |   |   |
|                                | 8.4                           | 166               |   | 0.54                 | 2590                           |                               |                   |   |   |
|                                | 9.1                           | 152               |   | 0.61                 | 2267                           |                               | 0.75              |   |   |
| 10                             | 134                           | 0.70              | 1989  |                      |                                |                               |                   |   |   |
| 820                            | 1.2                           | 1126              | FA 67R37<br>FAF67R37<br>F 67R37<br>FF 67R37 | 0.18                 | 4300                           | 0.80                          | 1739              | FA 97R57<br>FAF97R57<br>F 97R57<br>FF 97R57     | 0.37  |
|                                | 1.4                           | 984               |   |                      |                                | 0.90                          | 1542              |   |   |
|                                | 1.6                           | 864               |   |                      |                                | 1.0                           | 1340              |   |   |
|                                | 1.9                           | 722               |   | 1.2                  |                                | 1182                          | 0.55              |   |   |
|                                | 2.2                           | 633               |   | 1.3                  |                                | 1032                          |                   |   |   |
|                                | 2.6                           | 527               |   | 1.5                  |                                | 907                           | 0.75              |   |   |
|                                | 2.8                           | 500               |   | 1.8                  |                                | 796                           |                   |   |   |
|                                | 3.1                           | 454               |   | 2.0                  |                                | 700                           | 1.1               |   |   |
|                                | 3.5                           | 392               |   | 2.3                  |                                | 611                           |                   |   |   |
|                                | 4.2                           | 333               |   | 2.6                  |                                | 534                           |                   |   |   |
|                                | 4.7                           | 297               |   | 3.0                  |                                | 472                           | 1.5               |   |   |
|                                | 5.3                           | 261               |   | 3.5                  |                                | 410                           |                   |   |   |
|                                | 5.8                           | 238               |   | 3.9                  |                                | 367                           | 2.2               |   |   |
| 7.0                            | 200                           | 4.9               | 288   |                      |                                |                               |                   |   |   |
| 1500                           | 0.7                           | 2024              | FA 77R37<br>FAF77R37<br>F 77R37<br>FF 77R37 | 0.18                 | 7840                           | 5.7                           | 247               | FA 107R77<br>FAF107R77<br>F 107R77<br>FF 107R77 | 0.18  |
|                                | 0.81                          | 1728              |   |                      |                                | 0.12                          | 11347             |   |   |
|                                | 0.91                          | 1543              |   | 0.14                 |                                | 10039                         | 0.25              |   |   |
|                                | 1.03                          | 1354              |   | 0.16                 |                                | 8548                          |                   |   |   |
|                                | 1.2                           | 1196              |   | 0.18                 |                                | 7675                          | 0.37              |   |   |
|                                | 1.3                           | 1050              |   | 0.21                 |                                | 6615                          |                   |   |   |
|                                | 1.5                           | 907               |   | 0.24                 |                                | 5820                          | 0.55              |   |   |
|                                | 1.7                           | 810               |   | 0.27                 |                                | 5223                          |                   |   |   |
|                                | 2.0                           | 710               |   |                      |                                |                               |                   |   |   |

表上所配功率均有超载,按实际条件确定的转矩不得大于减速机额定转矩。 The power are all overload in the table. The decided torque according to operating condition should not more than gear units' nominal torque.

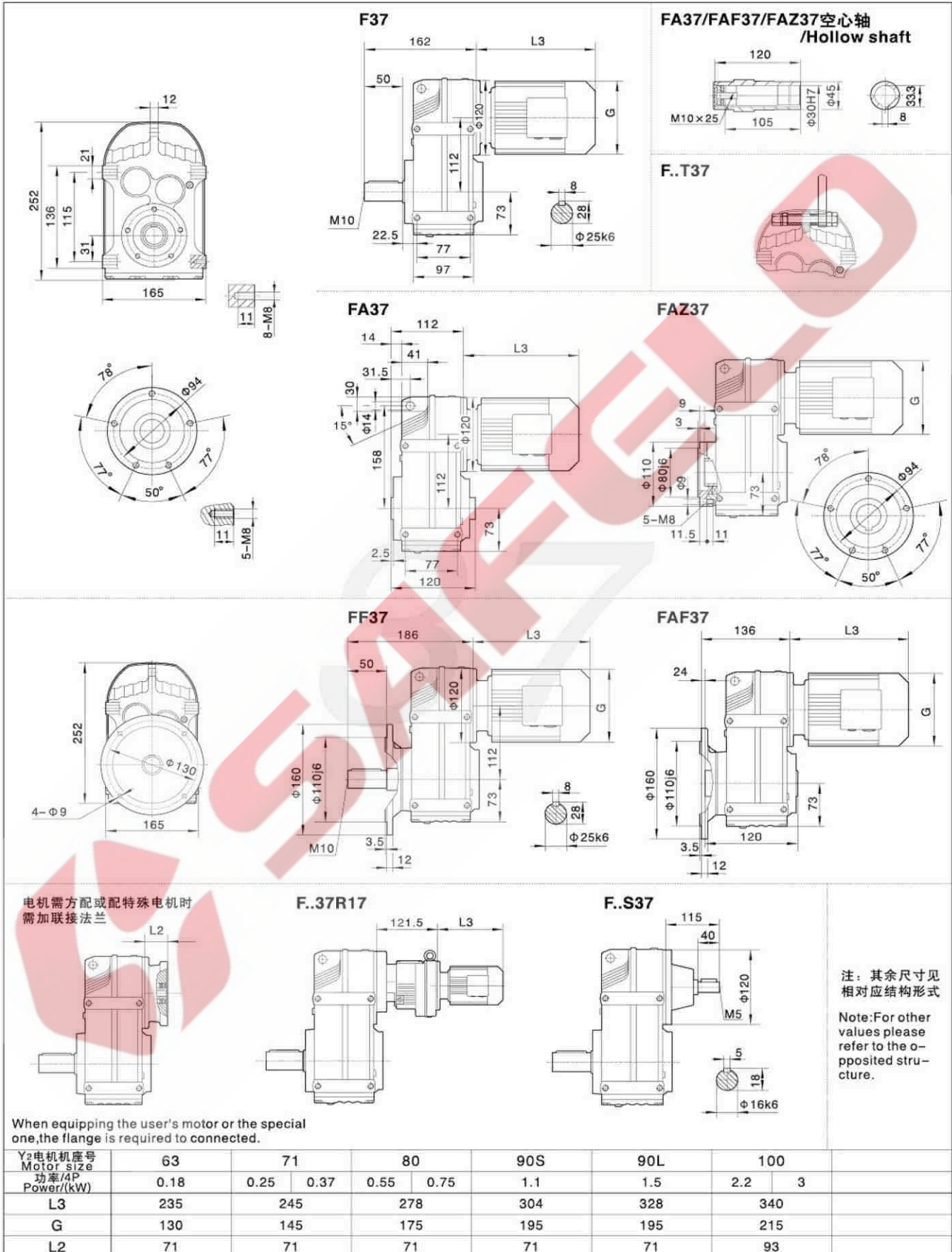
选型参数表

SELECTION TABLE

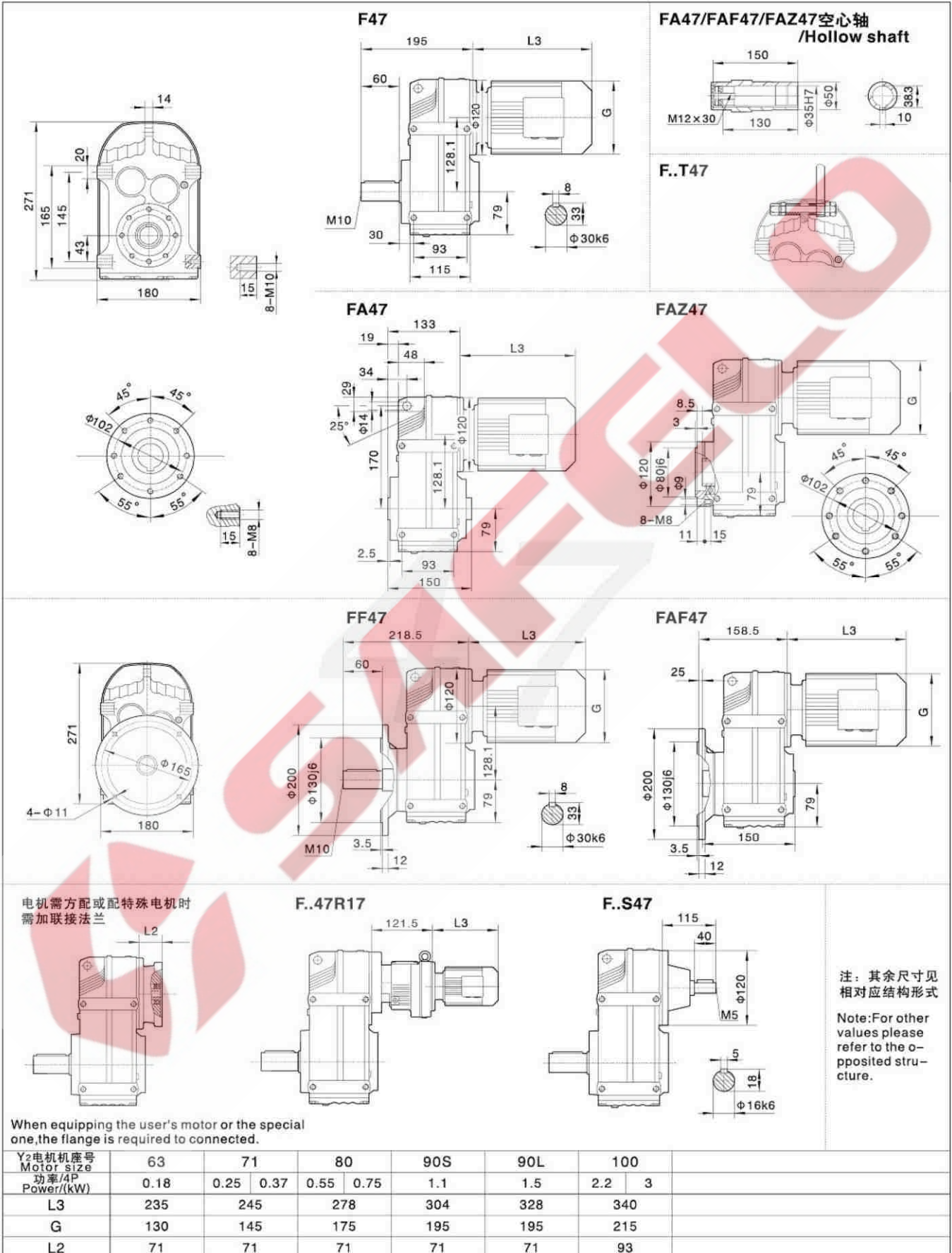
| Mamax Permissible torque<br>Nm | 输出转速<br>Output speed<br>r/min | 传动比<br>Ratio<br>i | 机型号<br>Type<br>Type                             | 功率<br>Power<br>kW/4p | Mamax Permissible torque<br>Nm | 输出转速<br>Output speed<br>r/min | 传动比<br>Ratio<br>i                               | 机型号<br>Type<br>Type                             | 功率<br>Power<br>kW/4p |
|--------------------------------|-------------------------------|-------------------|---|----------------------|--------------------------------|-------------------------------|---|---|----------------------|
| 7840                           | 0.30                          | 4567              | FA 107R77<br>FAF107R77<br>F 107R77<br>FF 107R77 | 0.37                 | 18000                          | 0.04                          | 31434   | FA 157R97<br>FAF157R97<br>F 157R97<br>FF 157R97 | 0.55                 |
|                                | 0.40                          | 3442              |   |                      |                                | 0.05                          | 26173   |   |                      |
|                                | 0.46                          | 3037              |   | 0.06                 |                                | 23464                         |   |   |                      |
|                                | 0.50                          | 2756              |   | 0.07                 |                                | 20212                         |   |   |                      |
|                                | 0.59                          | 2369              |   | 0.08                 |                                | 17984                         |   |   |                      |
|                                | 0.67                          | 2068              |   | 0.09                 |                                | 16358                         |   |   |                      |
|                                | 0.76                          | 1826              |   | 0.10                 |                                | 13751                         |   |   |                      |
|                                | 0.88                          | 1597              |   | 0.11                 |                                | 12235                         |   |   |                      |
|                                | 1.0                           | 1401              |   | 0.20                 |                                | 7065                          |   |   |                      |
|                                | 1.1                           | 1243              |   | 0.22                 |                                | 6286                          |   |   |                      |
|                                | 1.3                           | 1087              |   | 0.26                 |                                | 5404                          |   |   |                      |
|                                | 1.5                           | 950               |   | 0.14                 |                                | 10033                         |   |   |                      |
|                                | 1.7                           | 834               |   | 0.16                 |                                | 9021                          |   |   |                      |
|                                | 1.9                           | 736               |   | 0.17                 |                                | 8026                          |   |   |                      |
|                                | 2.3                           | 627               |   | 0.29                 |                                | 4831                          |   |   |                      |
|                                | 2.5                           | 560               |   | 0.34                 |                                | 4124                          |   |   |                      |
|                                | 2.9                           | 489               |   | 0.50                 |                                | 2776                          |   |   |                      |
|                                | 3.3                           | 427               |   | 0.57                 |                                | 2427                          |   |   |                      |
| 4.0                            | 362                           | 0.64              | 2185  |                      |                                |                               |   |   |                      |
| 4.3                            | 333                           | 0.39              | 3602  |                      |                                |                               |   |   |                      |
| 12000                          | 0.08                          | 16787             | FA 127R77<br>FAF127R77<br>F 127R77<br>FF 127R77 | 0.18                 | 0.44                           | 3205                          | FA 127R87<br>FAF127R87<br>F 127R87<br>FF 127R87 | 2.2   |                      |
|                                | 0.09                          | 14838             |   |                      | 0.73                           | 1944                          |   |   |                      |
|                                | 0.11                          | 13014             |   | 0.85                 | 1674                           |                               |   |   |                      |
|                                | 0.12                          | 11748             |   | 1.00                 | 1420                           |                               |   |   |                      |
|                                | 0.14                          | 10271             |   | 1.1                  | 1308                           |                               |   |   |                      |
|                                | 0.16                          | 8901              |   | 1.2                  | 1169                           |                               |   |   |                      |
|                                | 0.18                          | 7703              |   | 1.5                  | 953                            |                               |   |   |                      |
|                                | 0.21                          | 6768              |   | 1.7                  | 845                            |                               |   |   |                      |
|                                | 0.23                          | 5975              |   | 1.9                  | 764                            |                               |   |   |                      |
|                                | 0.27                          | 5076              |   | 2.1                  | 680                            |                               |   |   |                      |
|                                | 0.31                          | 4466              |   | 2.5                  | 576                            |                               |   |   |                      |
|                                | 0.36                          | 3868              |   | 2.9                  | 503                            |                               |   |   |                      |
|                                | 0.41                          | 3403              |   | 3.3                  | 446                            |                               |   |   |                      |
|                                | 0.47                          | 2987              |   | 4.9                  | 301                            |                               |   |   |                      |
|                                | 0.52                          | 2693              |   | 5.4                  | 272                            |                               |   |   |                      |
|                                | 0.59                          | 2376              |   | 6.3                  | 231                            |                               |   |   |                      |
|                                | 0.68                          | 2054              |   | 7.2                  | 202                            |                               |   |   |                      |
|                                | 0.78                          | 1798              |   | 4.9                  | 196                            |                               |   |   |                      |
|                                | 0.86                          | 1619              |   | 1.1                  |                                |                               |   |   |                      |
|                                | 1.0                           | 1401              |   | 1.5                  |                                |                               |   |   |                      |
|                                | 1.2                           | 1230              |   | 2.2                  |                                |                               |   |   |                      |
|                                | 1.3                           | 1085              |   | 3                    |                                |                               |   |   |                      |
|                                | 1.5                           | 937               |   | 4                    |                                |                               |   |   |                      |
|                                | 1.7                           | 827               |   | 5.5                  |                                |                               |   |   |                      |
| 1.9                            | 733                           |                   |   |                      |                                |                               |   |   |                      |
| 2.2                            | 640                           |                   |   |                      |                                |                               |   |   |                      |
| 2.7                            | 542                           |                   |   |                      |                                |                               |   |   |                      |
| 2.9                            | 489                           |                   |   |                      |                                |                               |   |   |                      |
| 3.4                            | 423                           |                   |   |                      |                                |                               |   |   |                      |
| 3.9                            | 371                           |                   |   |                      |                                |                               |   |   |                      |
| 3.0                            | 483                           |                   |   |                      |                                |                               |   |   |                      |
| 3.5                            | 417                           |                   |   |                      |                                |                               |   |   |                      |
| 3.9                            | 373                           |                   |   |                      |                                |                               |   |   |                      |
| 4.7                            | 312                           |                   |   |                      |                                |                               |   |   |                      |
| 5.0                            | 293                           |                   |   |                      |                                |                               |   |   |                      |
| 7.3                            | 200                           |                   |   |                      |                                |                               |   |   |                      |

表上所配功率均有超载,按实际条件确定的转扭不得大于减速机额定转扭。 The power are all overload in the table. The decided torque according to operating condition should not more than gear units' nominal torque.



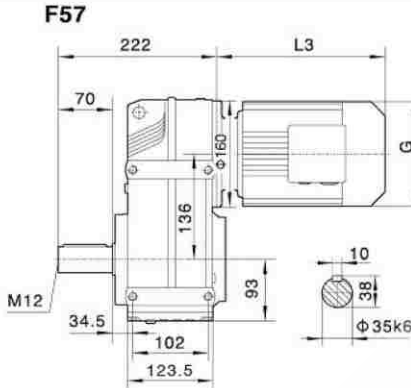
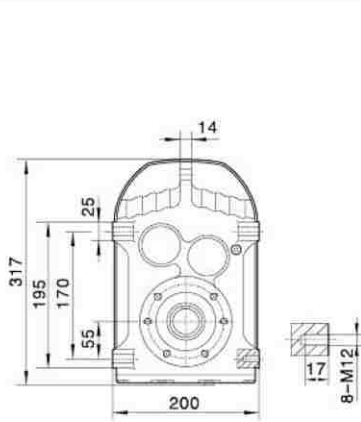


注:1.以上壳体为通用件,安装尺寸均可相互参照 2."F."表示F、FA、FF、FAF、FAZ  
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."F."mean F、FA、FF、FAF、FAZ

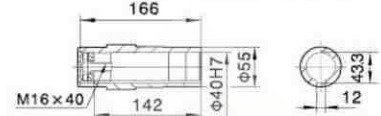


F

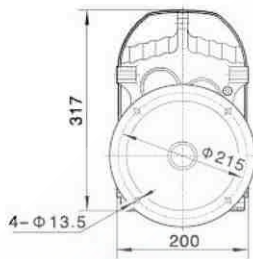
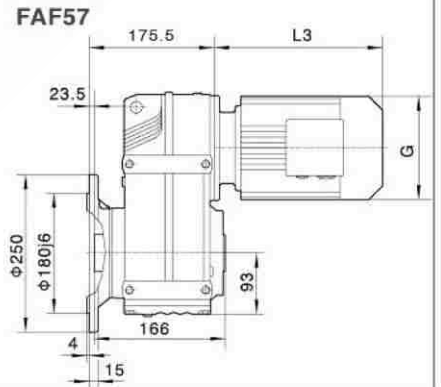
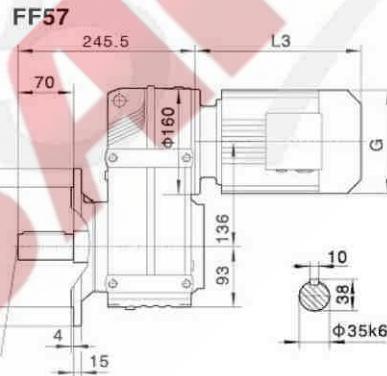
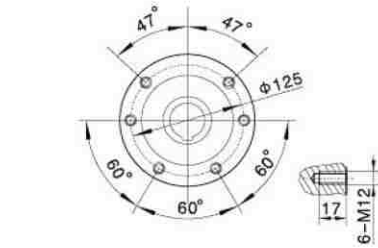
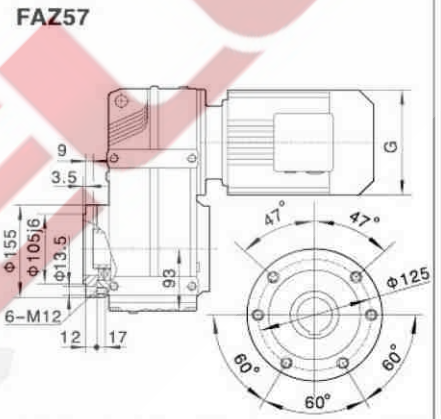
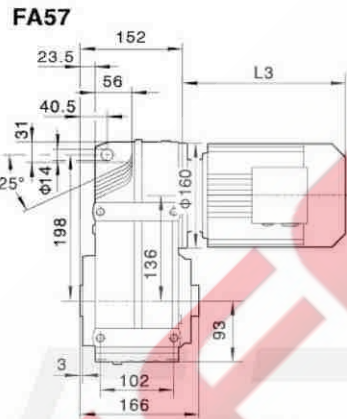
注:1.以上壳体为通用件,安装尺寸均可相互参照 2."F."表示F、FA、FF、FAF、FAZ  
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."F."mean F、FA、FF、FAF、FAZ



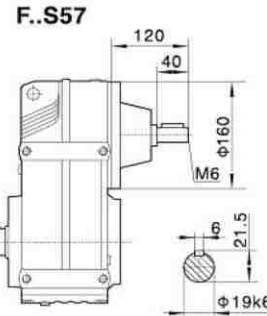
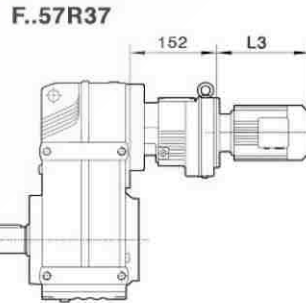
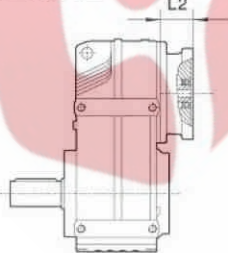
FA57/FAF57/FAZ57空心轴  
/Hollow shaft



F..T57



电机需方配或配特殊电机时  
需加联接法兰



注：其余尺寸见  
相对应结构形式

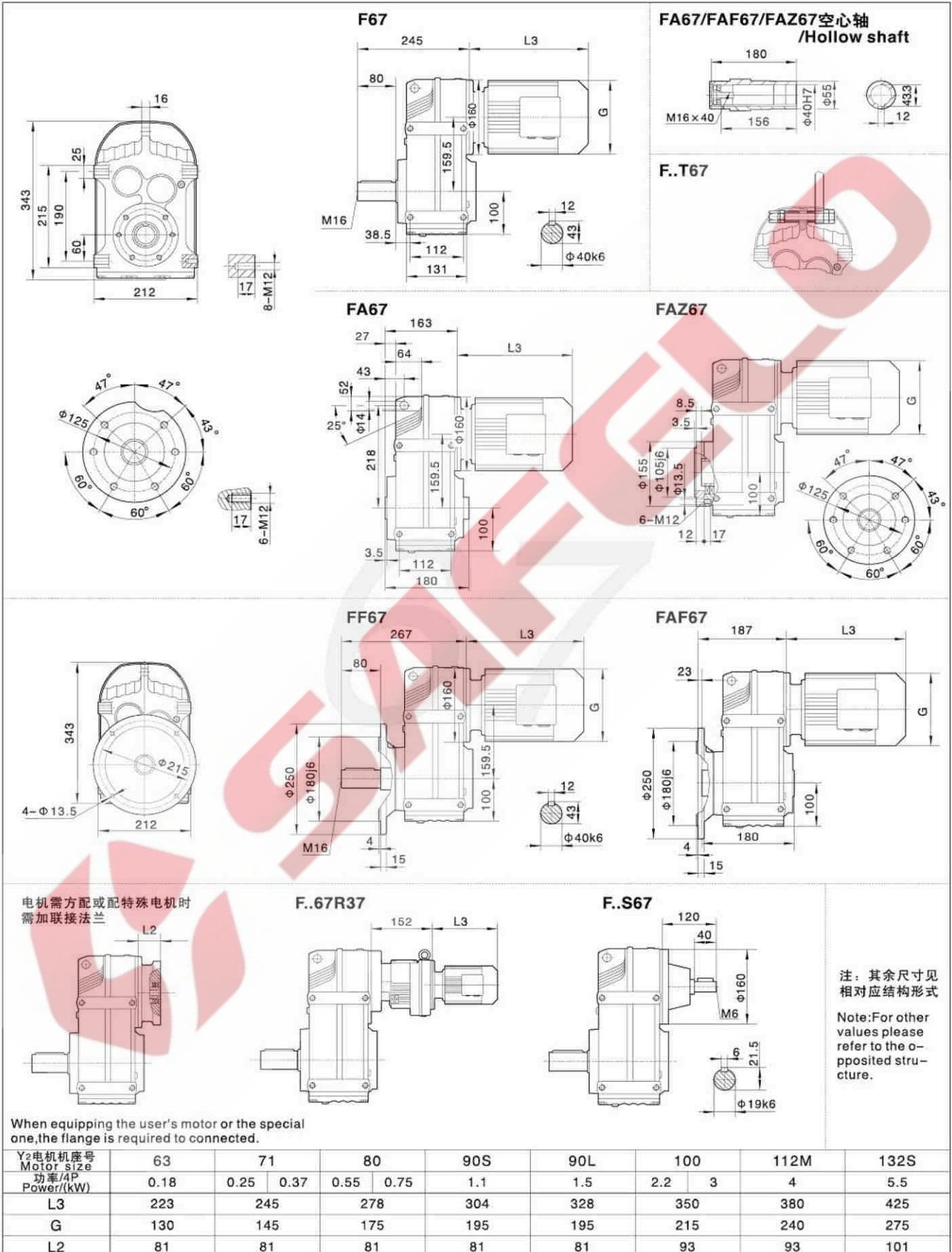
Note: For other  
values please  
refer to the o-  
pposited struc-  
ture.

When equipping the user's motor or the special  
one, the flange is required to be connected.

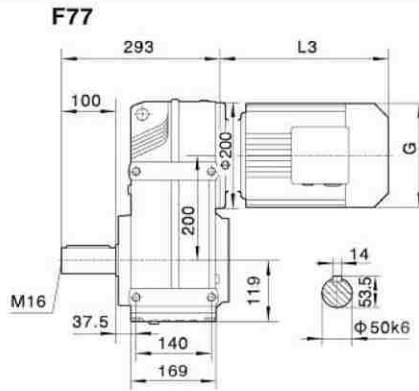
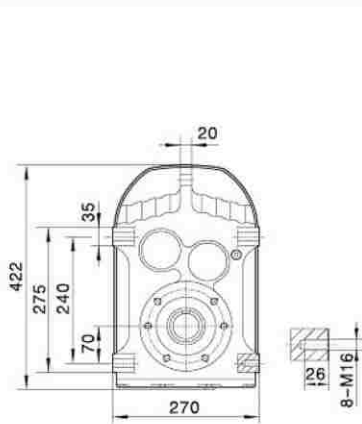
| Y <sub>2</sub> 电机座号<br>Motor size<br>功率/4P<br>Power/(kW) | 63  | 71  | 80  | 90S | 90L | 100 | 112M | 132S |
|--|-----|-----|-----|-----|-----|-----|------|------|
| L3   | 223 | 245 | 278 | 304 | 328 | 350 | 380  | 425  |
| G  | 130 | 145 | 175 | 195 | 195 | 215 | 240  | 275  |
| L2   | 81  | 81  | 81  | 81  | 81  | 93  | 93   | 101  |

注:1.以上壳体为通用件,安装尺寸均可相互参照 2."F.."表示F、FA、FF、FAF、FAZ

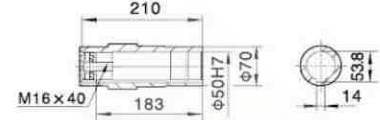
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ



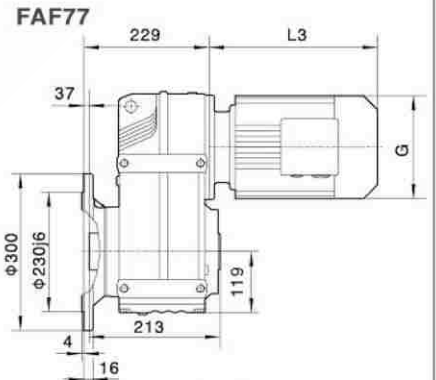
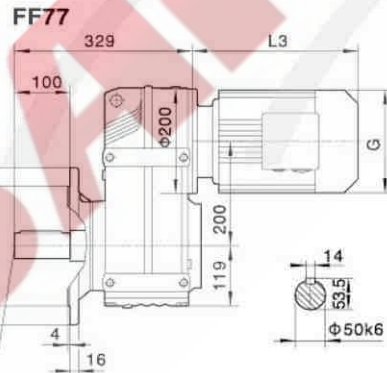
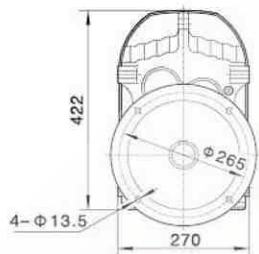
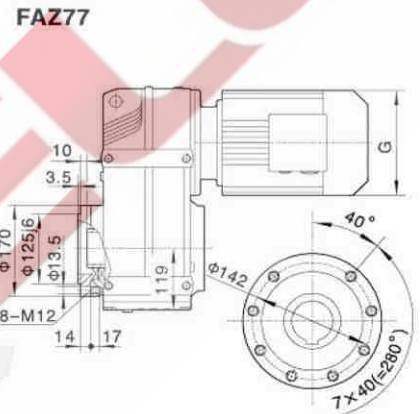
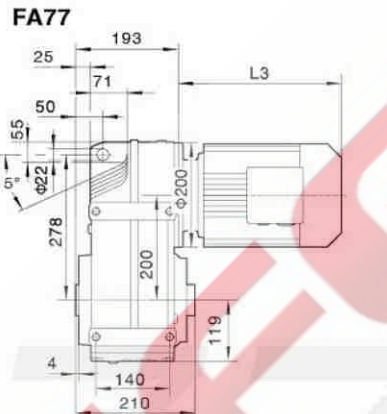
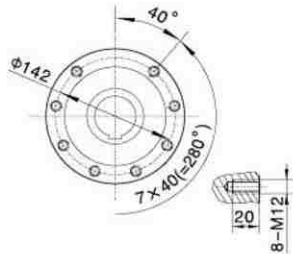
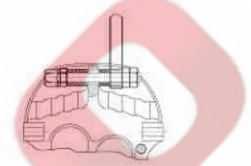
F



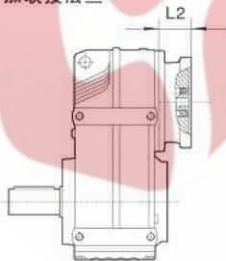
FA77/FAF77/FAZ77空心轴 /Hollow shaft



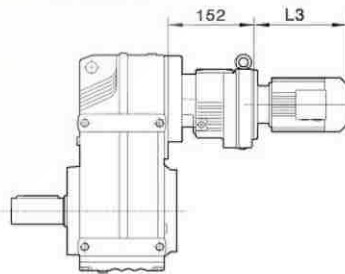
F..T77



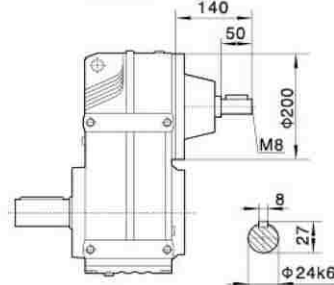
电机需方配或配特殊电机时需加联接法兰



F..77R37



F..S77



注: 其余尺寸见相对应结构形式

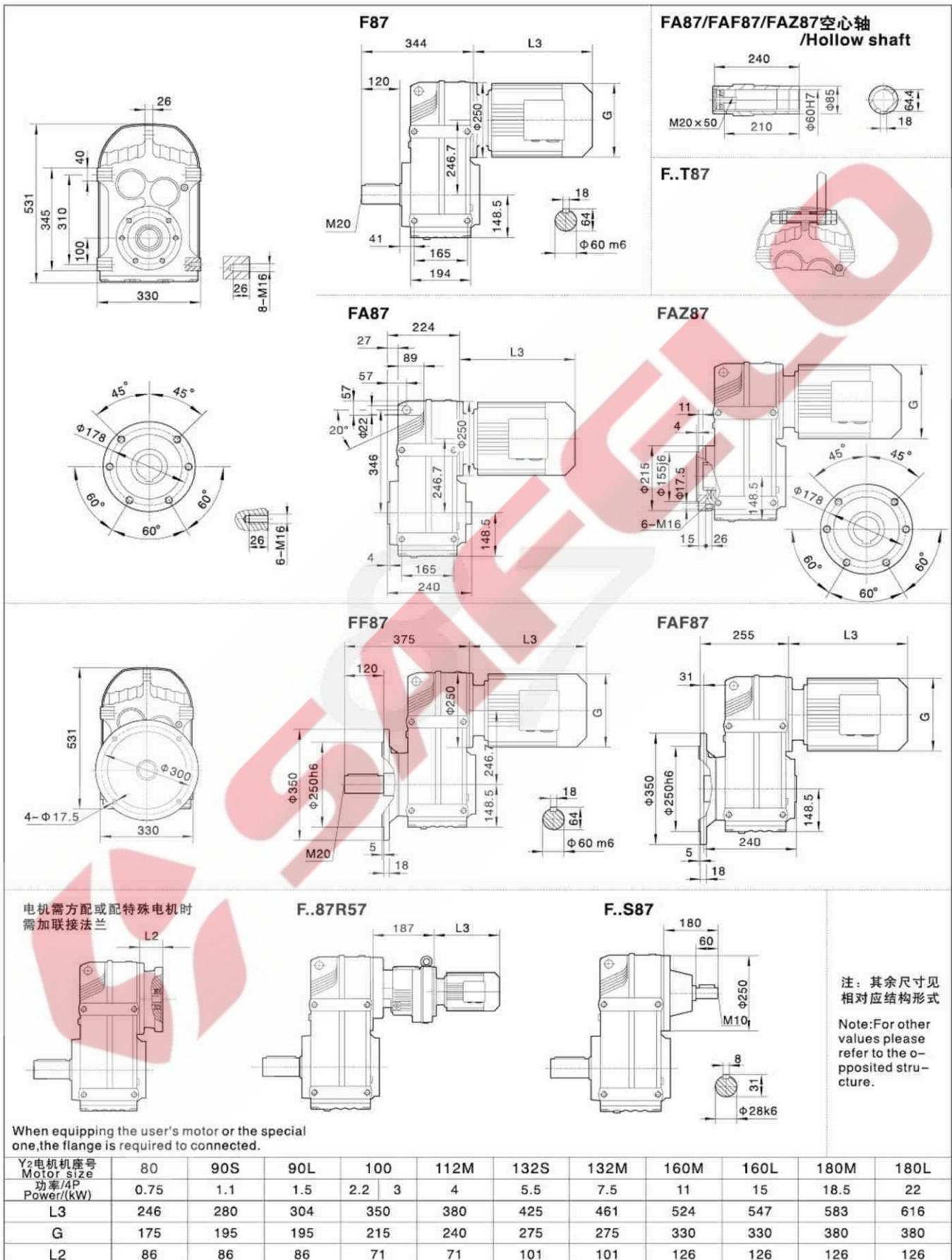
Note: For other values please refer to the o-posed structure.

When equipping the user's motor or the special one, the flange is required to be connected.

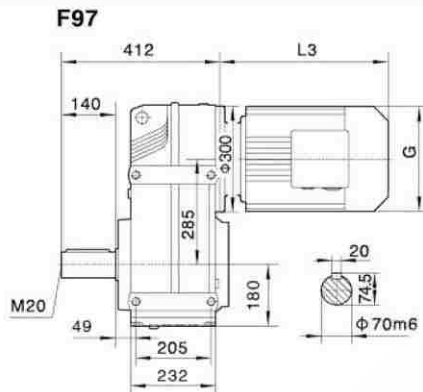
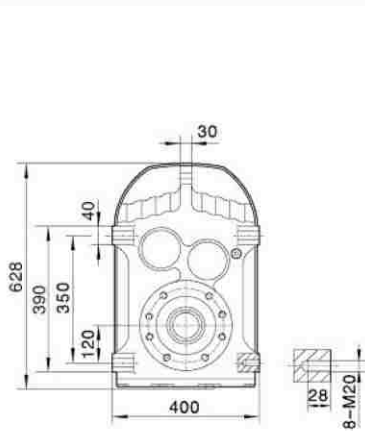
| Y2电机机座号<br>Motor size<br>功率/4P<br>Power/(kW) | 71  | 80  | 90S | 90L | 100 | 112M | 132S | 132M | 160M |
|--|-----|-----|-----|-----|-----|------|------|------|------|
| L3   | 233 | 278 | 304 | 328 | 350 | 380  | 425  | 461  | 524  |
| G  | 145 | 175 | 195 | 195 | 215 | 240  | 275  | 275  | 330  |
| L2   | 81  | 81  | 81  | 81  | 93  | 93   | 101  | 101  | 126  |

注:1. 以上壳体为通用件, 安装尺寸均可相互参照 2. "F.."表示F、FA、FF、FAF、FAZ

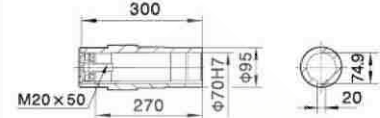
Note: 1. The above housings are common parts. The mounting dimensions may consult each other. 2. "F.." mean F、FA、FF、FAF、FAZ



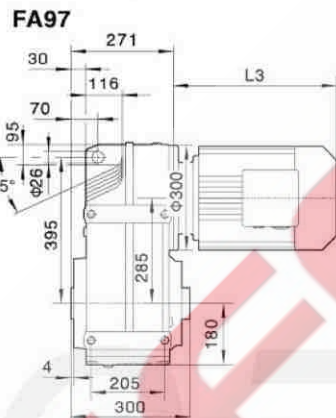
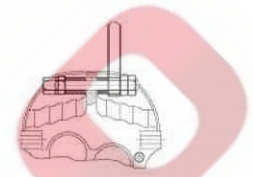
F



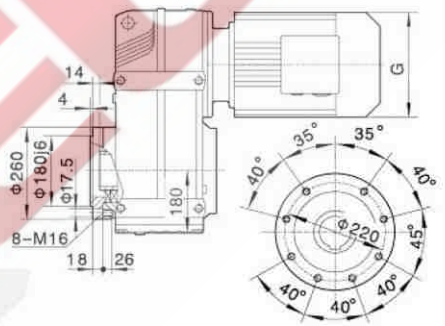
FA97/FAF97/FAZ97空心轴  
/Hollow shaft



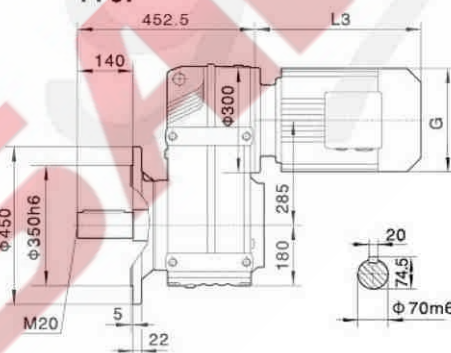
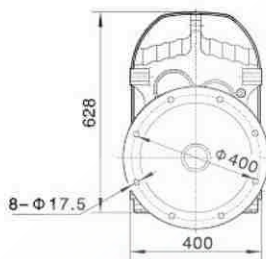
F..T97



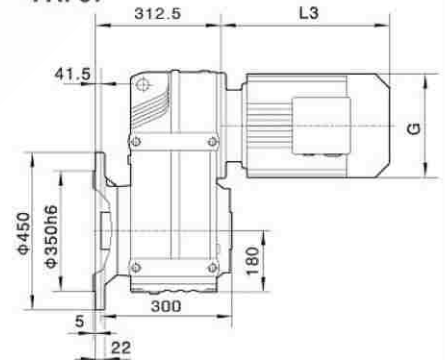
FAZ97



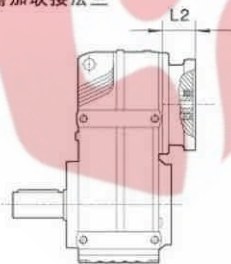
FF97



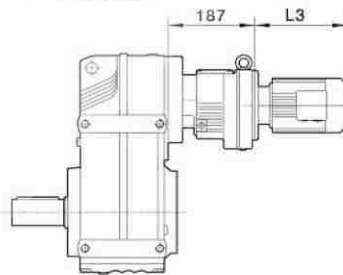
FAF97



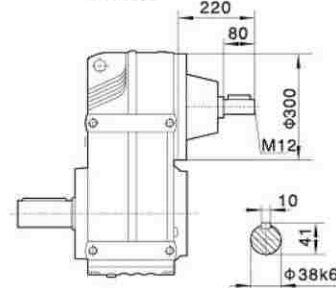
电机需方配或配特殊电机时  
需加联接法兰



F..97R57



F..S97



注: 其余尺寸见  
相对应结构形式

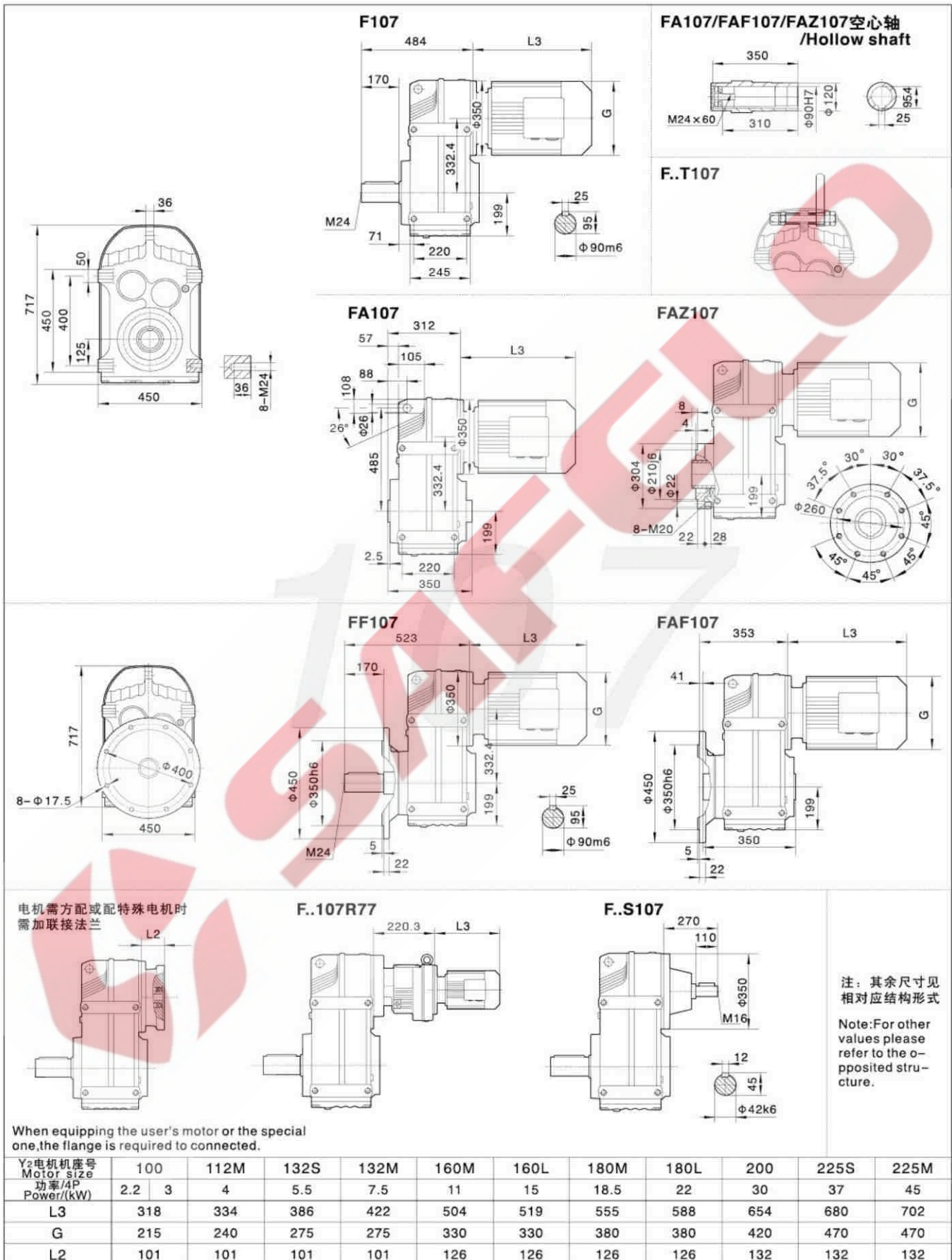
Note: For other  
values please  
refer to the o-  
pposited stru-  
cture.

When equipping the user's motor or the special  
one, the flange is required to be connected.

| Y <sub>2</sub> 电机座号<br>Motor size | 90S | 90L | 100 | 112M | 132S | 132M | 160M | 160L | 180M | 180L | 200 |
|-----------------------------------|-----|-----|-----|------|------|------|------|------|------|------|-----|
| 功率/4P<br>Power/(kW)               | 1.1 | 1.5 | 2.2 | 3    | 4    | 5.5  | 7.5  | 11   | 15   | 18.5 | 30  |
| L3                                | 280 | 304 | 315 | 334  | 425  | 461  | 524  | 547  | 555  | 588  | 654 |
| G                                 | 195 | 195 | 215 | 240  | 275  | 275  | 330  | 330  | 380  | 380  | 420 |
| L2                                | 86  | 86  | 101 | 101  | 101  | 101  | 126  | 126  | 126  | 126  | 132 |

注:1. 以上壳体为通用件, 安装尺寸均可相互参照 2. "F.."表示F、FA、FF、FAF、FAZ

Note: 1. The above housings are common parts. The mounting dimensions may consult each other. 2. "F.." mean F, FA, FF, FAF, FAZ

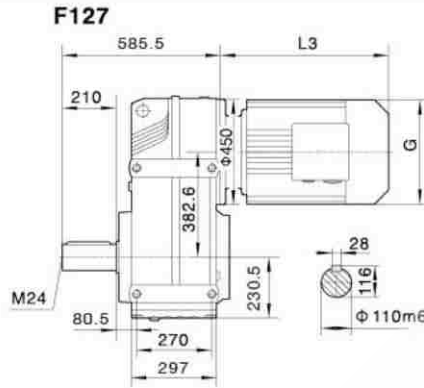
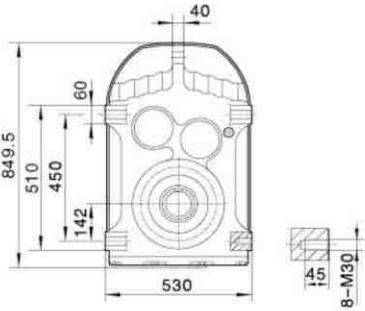


F

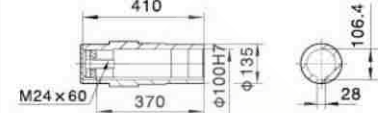
注:1.以上壳体为通用件,安装尺寸均可相互参照 2."F."表示F、FA、FF、FAF、FAZ  
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."F."mean F、FA、FF、FAF、FAZ



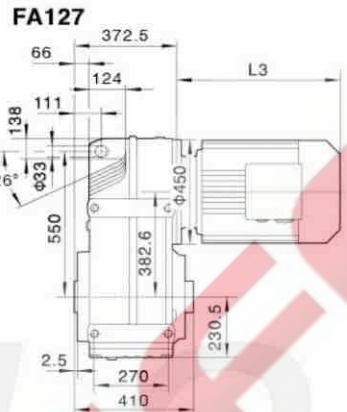
外形安装尺寸 MOUNTING DIMENSION SHEETS-OVERVLEW



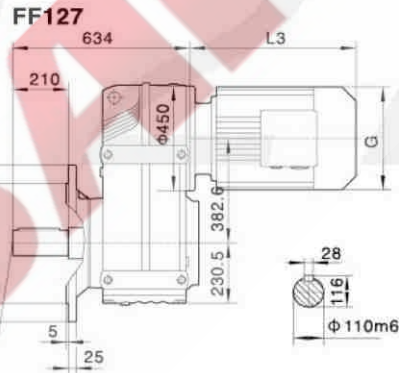
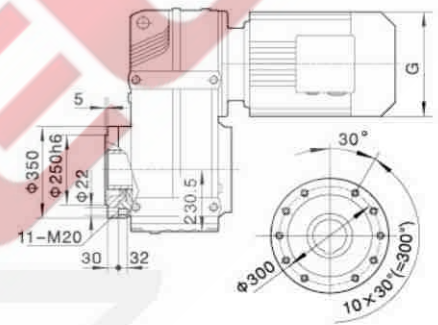
FA127/FAF127/FAZ127空心轴 /Hollow shaft



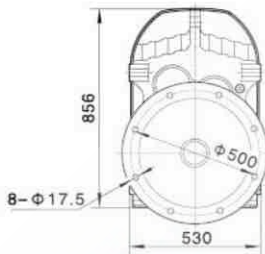
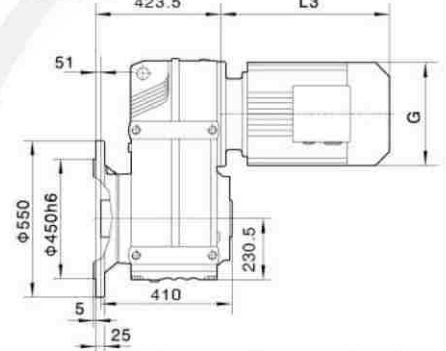
F..T127



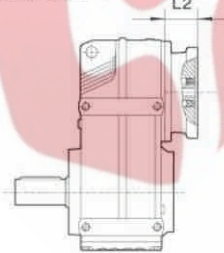
FAZ127



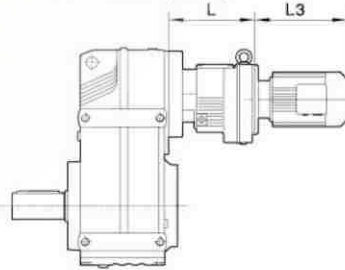
FAF127



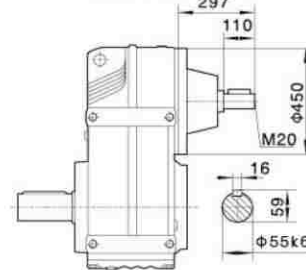
电机需方配或配特殊电机时需加联接法兰



F..127R77(R87)



F..S127



注：其余尺寸见相对应结构形式

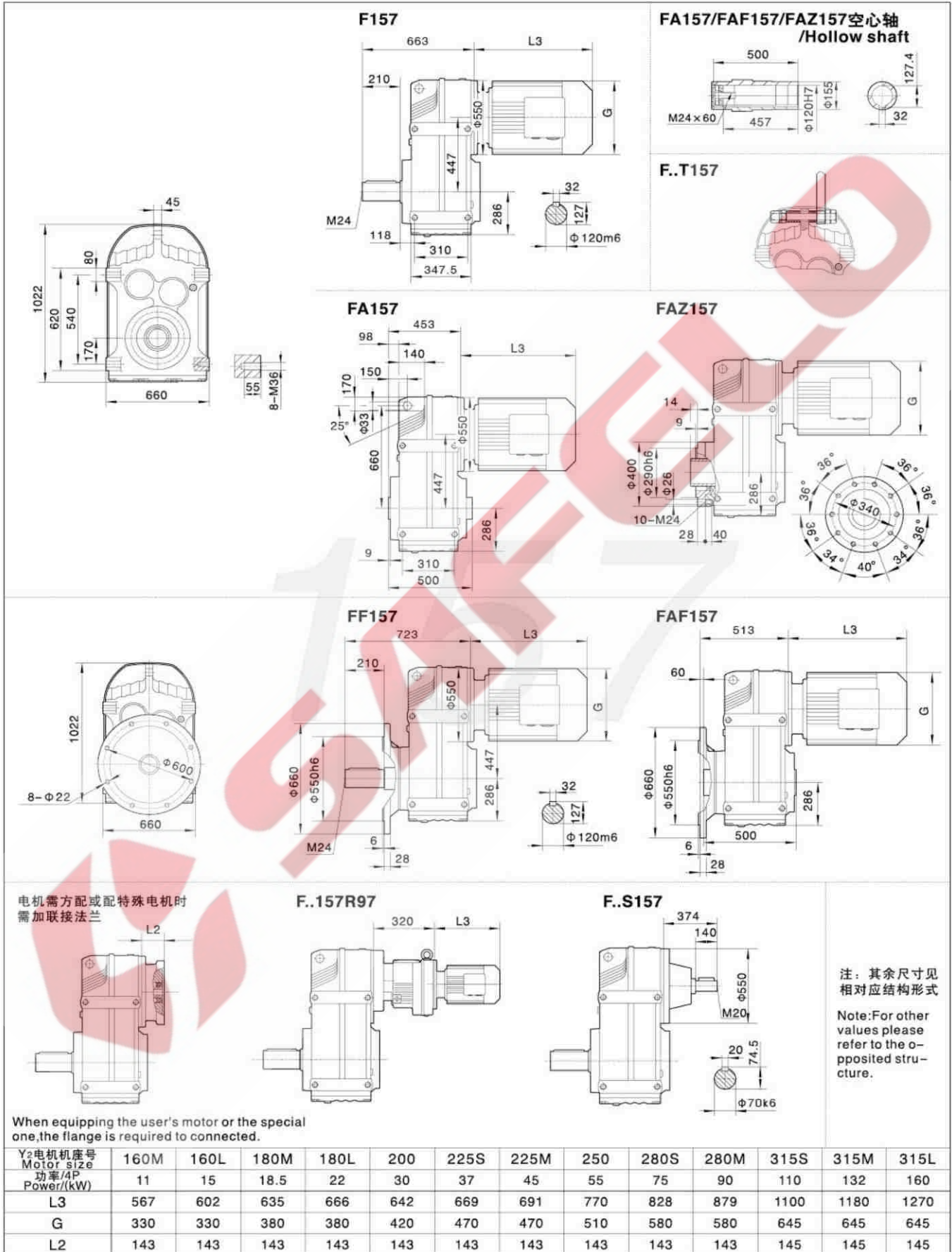
Note: For other values please refer to the o-posed structure.

When equipping the user's motor or the special one, the flange is required to be connected.

| Y <sub>2</sub> 电机机座号<br>Motor size<br>功率/4P<br>Power/(kW) | 132M | 160M | 160L | 180M | 180L | 200 | 225S | 225M | 250 | 280S | 280M |
|---|------|------|------|------|------|-----|------|------|-----|------|------|
|   | L3   | 424  | 567  | 602  | 583  | 616 | 654  | 674  | 696 | 775  | 847  |
| G   | 275  | 330  | 330  | 380  | 380  | 420 | 470  | 470  | 510 | 580  | 580  |
| L2  | 132  | 132  | 132  | 132  | 132  | 132 | 143  | 143  | 174 | 174  | 174  |

注:1.以上壳体为通用件,安装尺寸均可相互参照 2."F.."表示F、FA、FF、FAF、FAZ

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ

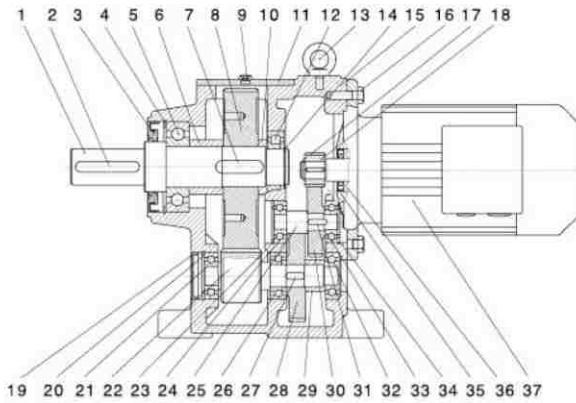


F

注:1. 以上壳体为通用件, 安装尺寸均可相互参照 2. "F."表示F、FA、FF、FAF、FAZ  
Note: 1. The above housings are common parts. The mounting dimensions may consult each other. 2. "F." mean F, FA, FF, FAF, FAZ

### 一. R系列结构图

R series structural drawing

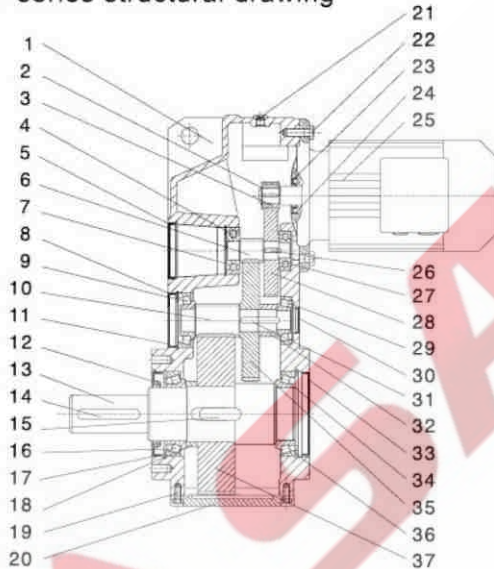


- |           |             |              |             |
|-----------|-------------|--------------|-------------|
| 1. 输出轴    | 10. 轴套 II   | 19. 封盖       | 28. 齿轮 II   |
| 2. 平键 I   | 11. 盖       | 20. 孔用挡圈 II  | 29. 轴套 III  |
| 3. 输出轴油封  | 12. 轴承 II   | 21. 轴承 III   | 30. 齿轮 I    |
| 4. 孔用挡圈 I | 13. 吊环      | 22. 齿轮轴 III  | 31. 平键 IV   |
| 5. 轴承 I   | 14. 轴用挡圈 I  | 23. 孔用挡圈 III | 32. 轴承 VI   |
| 6. 轴套 I   | 15. 箱体      | 24. 轴承 IV    | 33. 轴承 VII  |
| 7. 平键 II  | 16. 螺栓      | 25. 齿轮轴 II   | 34. 孔用挡圈 IV |
| 8. 齿轮 III | 17. 轴用挡圈 II | 26. 轴承 V     | 35. 电机油封    |
| 9. 通气帽    | 18. 输入齿轮    | 27. 平键 III   | 36. 电机轴承    |
|           |             |              | 37. 电机      |

- |                      |                    |                      |
|----------------------|--------------------|----------------------|
| 1. Output shaft      | 13. Hoisting ring  | 25. Gear shaft II    |
| 2. Parallel key      | 14. Circlip II     | 26. Bearing V        |
| 3. Output shaft seal | 15. Housing        | 27. Parallel key III |
| 4. Circlip I         | 16. Bolts          | 28. Gear I           |
| 5. Bearing I         | 17. Circlip II     | 29. Bush III         |
| 6. Bush I            | 18. Input gear     | 30. Gear I           |
| 7. Parallel key II   | 19. Cover          | 31. Parallel key IV  |
| 8. Gear III          | 20. Circlip II     | 32. Bearing VI       |
| 9. Breather valve    | 21. Bearing III    | 33. Bearing VIII     |
| 10. Bush II          | 22. Gear shaft III | 34. Circlip IV       |
| 11. Cover            | 23. Circlip III    | 35. Motor seal       |
| 12. Bearing II       | 24. Bearing IV     | 36. Motor bearing    |
|                      |                    | 37. Motor            |

### 二. F系列结构图

F series structural drawing

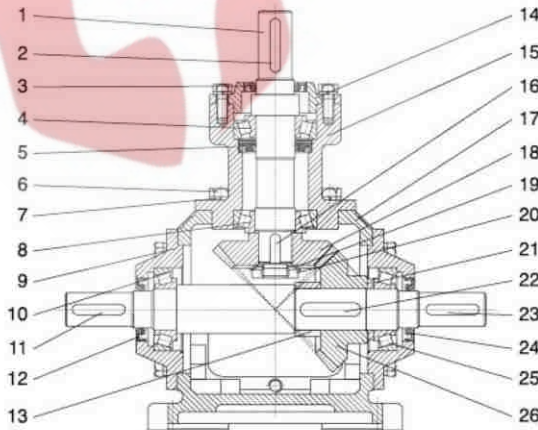


- |           |              |            |             |
|-----------|--------------|------------|-------------|
| 1. 箱体     | 10. 齿轮轴 III  | 19. 螺栓     | 28. 齿轮 I    |
| 2. 轴用挡圈 I | 11. 孔用挡圈 II  | 20. 盖      | 29. 轴承 V    |
| 3. 输入齿轮   | 12. 输出轴油封    | 21. 通气帽    | 30. 封盖 III  |
| 4. 孔用挡圈 I | 13. 输出轴      | 22. 螺栓     | 31. 平键 IV   |
| 5. 封盖 I   | 14. 平键 I     | 23. 电机油封   | 32. 轴套 II   |
| 6. 齿轮轴 II | 15. 平键 II    | 24. 电机轴承   | 33. 封盖 IV   |
| 7. 轴承 I   | 16. 轴承 III   | 25. 电机     | 34. 轴承 VI   |
| 8. 封盖 II  | 17. 孔用挡圈 III | 26. 平键 III | 35. 齿轮 II   |
| 9. 轴承 II  | 18. 轴套 III   | 27. 轴承 IV  | 36. 孔用挡圈 IV |
|           |              |            | 37. 齿轮 III  |

- |                       |                     |                      |
|-----------------------|---------------------|----------------------|
| 1. Housing            | 13. Output shaft    | 25. Motor            |
| 2. Circlip I          | 14. Parallel key I  | 26. Parallel key III |
| 3. Output gear        | 15. Parallel key II | 27. Bearing IV       |
| 4. Circlip I          | 16. Bearing III     | 28. Gear I           |
| 5. Cover              | 17. Circlip III     | 29. Bearing V        |
| 6. Gear shaft II      | 18. Bush III        | 30. Cover III        |
| 7. Bearing I          | 19. Bolts           | 31. Parallel key IV  |
| 8. Cover II           | 20. Cover           | 32. Bush II          |
| 9. Bearing II         | 21. Breather valve  | 33. Cover IV         |
| 10. Gear shaft III    | 22. Bolts           | 34. Bearing VI       |
| 11. Circlip II        | 23. Motor seal      | 35. Gear II          |
| 12. Output shaft seal | 24. Motor bearing   | 36. Circlip IV       |
|                       |                     | 37. Gear III         |

### 三. T系列结构图

T series structural drawing

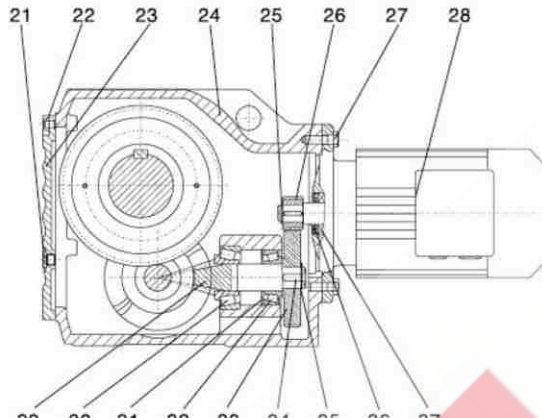
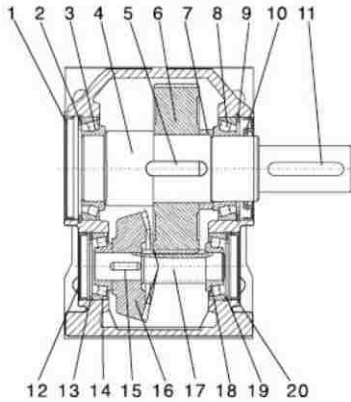


- |          |             |              |
|----------|-------------|--------------|
| 1. 输入轴   | 10. 轴承 III  | 19. 止动垫圈     |
| 2. 平键 I  | 11. 平键 II   | 20. 圆螺母      |
| 3. 输入轴油封 | 12. 输出轴油封 I | 21. 调整垫 I    |
| 4. 轴承 I  | 13. 调整垫 II  | 22. 平键 IV    |
| 5. 输入轴油封 | 14. 输入法兰盖   | 23. 平键 V     |
| 6. 螺栓    | 15. 输入法兰    | 24. 输出轴油封 II |
| 7. 弹簧垫圈  | 16. 平键 III  | 25. 轴承 IV    |
| 8. 轴承 II | 17. 箱体      | 26. 输出弧齿锥齿轮  |
| 9. 输出法兰  | 18. 输入弧齿锥齿轮 |              |

- |                     |                         |                          |
|---------------------|-------------------------|--------------------------|
| 1. Input shaft      | 10. Bearing III         | 19. Washer               |
| 2. Parallel key I   | 11. Parallel key II     | 20. Round screw nut      |
| 3. Input shaft seal | 12. Output shaft seal I | 21. Ring I               |
| 4. Bearing I        | 13. Ring II             | 22. Parallel key IV      |
| 5. Input shaft seal | 14. Input flange cover  | 23. Parallel key V       |
| 6. Bolts            | 15. Input flange        | 24. Output shaft seal II |
| 7. Washer           | 16. Parallel key III    | 25. Bearing IV           |
| 8. Bearing II       | 17. Housing             | 26. Output helical       |
| 9. Output flange    | 18. Input helical       | -bevel gear              |
|                     | -bevel gear             |                          |

四. K系列结构图

K series structural drawing



- 1.封盖 I
- 2.孔用挡圈 I
- 3.轴承 I
- 4.输出轴
- 5.平键 I
- 6.齿轮 III
- 7.轴套 III
- 8.轴承 II
- 9.孔用挡圈 II
- 10.输出轴油封
- 11.平键 II
- 12.封盖 II
- 13.孔用挡圈 III
- 14.轴承 III
- 15.平键 III
- 16.弧齿锥齿轮
- 17.齿轮轴 III
- 18.轴承 IV
- 19.孔用挡圈 IV
- 20.封盖 III
- 21.通气帽

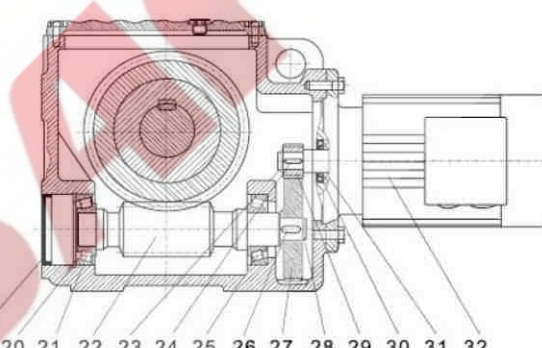
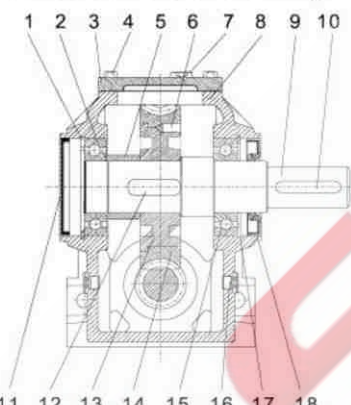
- 22.螺栓 I
- 23.端盖
- 24.箱体
- 25.轴用挡圈 I
- 26.输入齿轮
- 27.螺栓 II
- 28.电机
- 29.弧齿锥齿轮轴
- 30.轴承 V
- 31.孔用挡圈 V
- 32.轴承 VI
- 33.齿轮 I
- 34.平键 IV
- 35.轴用挡圈 II
- 36.电机油封
- 37.电机轴承

- 1.Cover I
- 2.Circlip I
- 3.Bearing I
- 4.Output shaft
- 5.Parallel key I
- 6.Gear III
- 7.Bush III
- 8.Bearing II

- 9.Circlip II
- 10.Output shaft seal
- 11.Parallel key II
- 12.Cover II
- 13.Circlip III
- 14.Bearing III
- 15.Parallel key III
- 16.Helical-bevel gear
- 17.Gear shaft III
- 18.Bearing IV
- 19.Circlip IV
- 20.Cover III
- 21.Breather valve
- 22.Bolts II
- 23.Cover
- 24.Housing
- 25.Circlip I
- 26.Input gear
- 27.Bolts I
- 28.Motor
- 29.Helical-bevel gear shaft
- 30.Bearing V
- 31.Circlip V
- 32.Bearing VI
- 33.Gear I
- 34.Parallel key IV
- 35.Circlip II
- 36.Motor seal
- 37.Motor bearing

五. S系列结构图

S series structural drawing



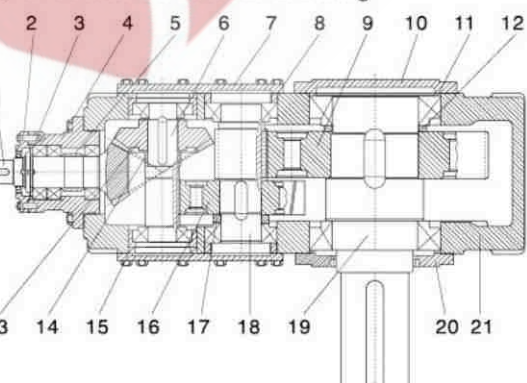
- 1.孔用挡圈 I
- 2.轴承 I
- 3.盖
- 4.螺栓 II
- 5.轴套 III
- 6.螺钉
- 7.通气帽
- 8.箱体
- 9.输出轴
- 10.平键 I
- 11.封盖 I
- 12.平键 II
- 13.蜗轮芯
- 14.蜗轮轮缘
- 15.轴承 II
- 16.油镜
- 17.孔用挡圈 II
- 18.输出轴油封
- 19.封盖 II
- 20.孔用挡圈 III
- 21.轴承 III
- 22.蜗杆
- 23.轴用挡圈 I
- 24.平键 III
- 25.轴承 IV
- 26.平键 IV
- 27.齿轮 I
- 28.轴用挡圈 II
- 29.输入齿轮
- 30.电机油封
- 31.电机轴承
- 32.电机

- 1.Circlip I
- 2.Bearing I
- 3.Cover
- 4.Bolts II
- 5.Bush III
- 6.Screws
- 7.Breather valve
- 8.Housing

- 9.Output shaft
- 10.Parallel key I
- 11.Cover I
- 12.Parallel key II
- 13.Worm wheel core
- 14.Worm wheel edge
- 15.Bearing II
- 16.Oil sight glass
- 17.Circlip II
- 18.Output shaft seal
- 19.Cover II
- 20.Circlip III
- 21.Bearing III
- 22.Worm
- 23.Circlip I
- 24.Parallel key III
- 25.Bearing IV
- 26.Parallel key IV
- 27.Gear I
- 28.Circlip II
- 29.Input gear
- 30.Motor seal
- 31.Motor bearing
- 32.Motor

六. H、B系列结构图

H、B series structural drawing



- 1.弧齿锥齿轮轴
- 2.通盖 I
- 3.调整环 I
- 4.轴承座
- 5.定距环 I
- 6.齿轮轴 I
- 7.止盖 I
- 8.调整环 III
- 9.齿轮 III
- 10.止盖 II
- 11.调整环 IV
- 12.定距环 IV
- 13.弧齿锥齿轮
- 14.定距环 II
- 15.调整环 II
- 16.齿轮 II
- 17.定距环 III
- 18.齿轮轴 II
- 19.输出轴
- 20.通盖 II
- 21.机体
- 1.Helical-bevel gear shaft
- 2.Cover I
- 3.Ring I
- 4.Bearing seat
- 5.Ring I
- 6.Gear shaft I
- 7.Cover I
- 8.Ring III
- 9.Gear III
- 10.Cover II
- 11.Ring IV
- 12.Ring IV
- 13.Helical-bevel gear
- 14.Ring II
- 15.Ring II
- 16.Gear II
- 17.Ring III
- 18.Gear shaft II
- 19.Output shaft
- 20.Cover II
- 21.Housing

## 电机

电机按标准供货，若指定或高于此标准必须说明。

- Y普通三相异步电动机：
- 电压380V，频率50Hz（其它电压、频率需注明）
- 防护等级：IP44或IP54（指定IP54、IP55、IP56、IP65等需注明）
- 绝缘等级：B或F（指定F等需注明）
- 制动电机的制动器电压：380V或220V（指定电压或其它电压需注明）
- 防爆电机防爆等级：d II BT4（其它等级需注明）
- 变频电机频率范围：0-50Hz（0-60Hz、0-120Hz或指定的范围需提出）
- 电机的噪声、电流、效率、功率因素、额定转矩等项目按国家标准。

以下要求及附件需另行说明：

- \*制动电机配手释放装置
- \*电机的热传感器
- \*不带风冷或强制风冷
- \*配旋转编码器
- \*防水、防潮、防尘的要求

## 电机代号

- 四极三相异步电动机代号 - Y（六极代号-Y6、八极代号-Y8、二级代号-Y2，下同）
- 制动电机代号 - YEJ
- 防爆电机代号 - YB
- 变频电机代号 - YVP
- 多速电机代号 - YD
- 变频制动代号 - YPEJ
- 其它电机代号另咨询。

## MOTOR

Motors comply with National standard, please state if specification of other standards needed.

- Y general tri-phase asynchronous motor data: 380V, 50Hz (other voltage & frequency should be stated)
- Index of performance: IP44 or IP54 (specification of IP54, IP55, IP56, IP65 should be stated)
- Insulation class: B & F (using F should be stated)
- Braking voltage of braking motor: 380V or 220V (other voltages should be stated)
- Explosion-proof class: d II BT4 (other classes should be stated)
- Frequency range: 0~50Hz (0~60Hz, 0~120Hz or other range will be stated)
- Noise, current, efficiency, power factor, nominal torque all comply with national standard.

The following will be specified by customers:

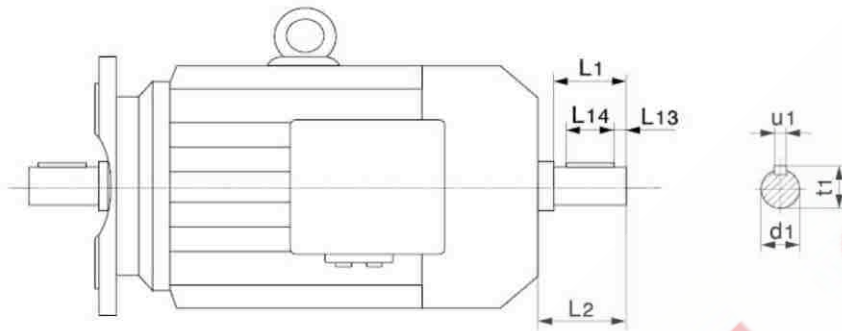
- \*Brake motor equipped with manual brake release
- \*Thermal sensor
- \*No air cooling or forced air cooling
- \*Installation of rotation encoder
- \*Water proof, damp proof, dust proof

## Motor code:

- Y - 4-pole tri-phase asynchronous motor  
(Y2 - 2-pole, Y6 - 6-pole, Y8 - 8-pole)
- YEJ - Brake motor
- YB - Explosion-proof motor
- YVP - Frequency conversion motor
- YD - Multi-speed motor
- YPEJ - Frequency-conversion brake motor
- Other codes are available on request.

电机双出轴：

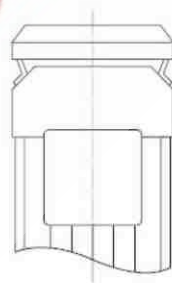
Double extended shaft motor:



|     | 63   | 71   | 80 | 90/100 | 112 | 132S | 132M | 160L | 180  | 200-225 |
|-----|------|------|----|--------|-----|------|------|------|------|---------|
| d1  | 11   | 11   | 14 | 19     | 24  | 28   | 38   | 42   | 48   | 55      |
| L1  | 23   | 23   | 30 | 40     | 50  | 60   | 80   | 110  | 110  | 110     |
| L2  | 27   | 25   | 31 | 42     | 55  | 65   | 85   | 115  | 115  | 115     |
| L13 | 3.5  | 1    | 4  | 4      | 5   | 5    | 5    | 10   | 10   | 10      |
| L14 | 16   | 20   | 22 | 32     | 40  | 50   | 70   | 70   | 80   | 90      |
| t1  | 12.5 | 12.5 | 16 | 21.5   | 27  | 31   | 41   | 45   | 51.5 | 59      |
| u1  | 4    | 4    | 5  | 6      | 8   | 8    | 10   | 12   | 14   | 16      |

电机配室外防护罩：

Motor equipped with shield:



电机接线盒未注明位置一般以0° 供货。

In general, position of terminal box is at angular 0° without specification.

以下只对Y、Y2的额定转速、外形长度尺寸提供一般说明。由于购买厂家不同，和配齿轮箱时法兰缩小，有时尺寸会有些变化，此处不标，其它例如直流、伺服、起重冶金高转差率电机及其它特种电机另行咨询。

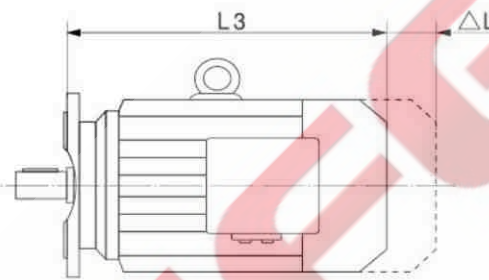
一般情况下Y132以下机座的普通三相异步电机以Y2系列提供，Y132以上以Y系列提供，以实际供货为准。

电机功率和转速、长度尺寸表：

We only provide general data of Y&Y2as example as follows. For the data of DC motor, servo-motor, and other special motors, please consult us.

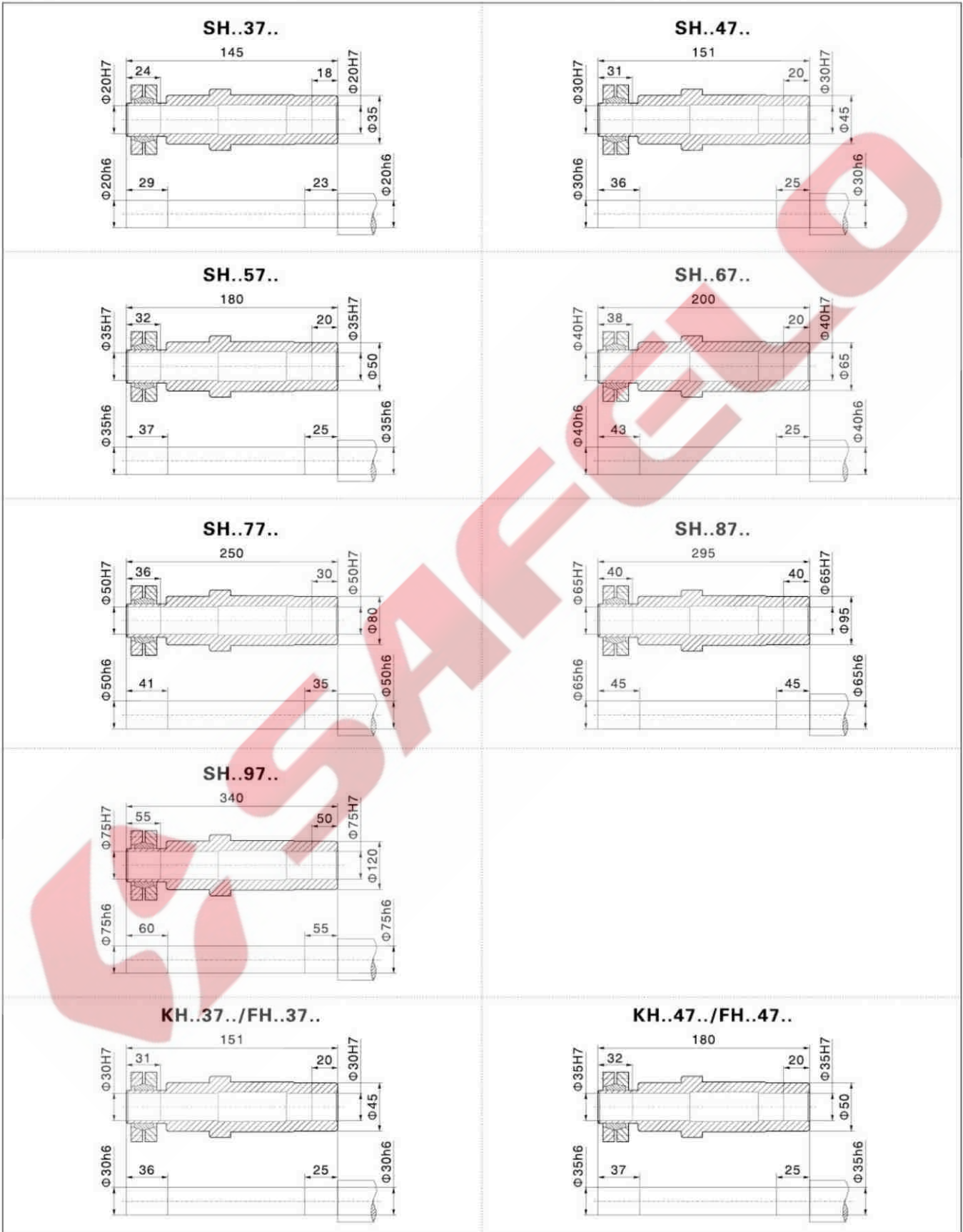
General 3-phase asynchronous motor belowsize 132 are provided as Y2 series, Type of motors above size 132 willbe provided as Y series.

Table of Power, speed and length dimension:



|      | 2极<br>(2electrodes) |                        | 4极<br>(4electrodes) |                        | 6极<br>(6electrodes) |                        | 8极<br>(8electrodes) |                        | m (kg) |       |      |      |      | 配H. B. P. T. RV. JW<br>L3 (mm) |      |     |      | 配R. S. K.<br>F另加<br>ΔL |
|------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|--------|-------|------|------|------|--------------------------------|------|-----|------|------------------------|
|      | Pm (kW)             | n <sub>m</sub> (r.p.m) | Pm (kW)             | n <sub>m</sub> (r.p.m) | Pm (kW)             | n <sub>m</sub> (r.p.m) | Pm (kW)             | n <sub>m</sub> (r.p.m) | (扁壳)   | Y     | YB   | YEJ  | YVP  | Y                              | YB   | YEJ | YVP  |                        |
| 63   | 0.18                | 2720                   | 0.12                | 1310                   |                     |                        |                     |                        | 5.5    |       |      | 11   |      | 197                            | 270  | 328 |      | 40                     |
|      | 0.25                | 2720                   | 0.18                | 1310                   |                     |                        |                     |                        | 6      |       | 15   | 12   |      |                                |      |     |      |                        |
| 71   | 0.37                | 2740                   | 0.25                | 1330                   | 0.18                | 850                    |                     |                        | 6.5    | 10    | 16   | 12   | 14   | 235                            | 285  | 330 |      | 30                     |
|      | 0.55                | 2740                   | 0.37                | 1330                   | 0.25                | 850                    |                     |                        | 7.5    | 10.50 | 16   | 13   | 15   |                                |      |     |      |                        |
| 80   | 0.75                | 2845                   | 0.55                | 1390                   | 0.37                | 885                    | 0.18                | 645                    | 10     | 15    | 31   | 20   | 16   | 255                            | 290  | 350 | 330  | 40                     |
|      | 1.1                 | 2845                   | 0.75                | 1390                   | 0.55                | 885                    | 0.25                | 645                    | 11     | 16    | 32   | 21   | 17   |                                |      |     |      |                        |
| 90s  | 1.5                 | 2840                   | 1.1                 | 1390                   | 0.75                | 910                    | 0.37                | 670                    | 16     | 20    | 35   | 27   | 23   | 270                            | 310  | 370 | 330  | 50                     |
| 90I  | 2.2                 | 2840                   | 1.5                 | 1390                   | 1.1                 | 910                    | 0.55                | 670                    | 20     | 23    | 39   | 31   | 28   | 295                            | 335  | 395 | 360  | 50                     |
| 100  | 3                   | 2860                   | 2.2                 | 1410                   |                     |                        | 0.75                | 680                    |        | 32    | 49   | 41   | 35   | 325                            | 370  | 420 | 405  | 60                     |
|      |                     |                        | 3                   | 1410                   | 1.5                 | 920                    | 1.1                 | 680                    |        | 35    | 53   | 44   | 36   |                                |      |     |      |                        |
| 112M | 4                   | 2880                   | 4                   | 1440                   | 2.2                 | 935                    | 1.5                 | 690                    |        | 46    | 67   | 60   | 43   | 340                            | 400  | 450 | 420  | 60                     |
| 132S | 5.5                 | 2900                   | 5.5                 | 1440                   | 3                   | 960                    | 2.2                 | 705                    |        | 60    | 93   | 85   | 63   | 395                            | 430  | 505 | 450  | 60                     |
|      | 7.5                 | 2900                   |                     |                        |                     |                        |                     |                        |        |       |      |      |      |                                |      |     |      |                        |
| 132M |                     |                        | 7.5                 | 1440                   | 4                   | 960                    | 3                   | 705                    |        | 73    | 105  | 98   | 75   | 435                            | 470  | 545 | 490  | 75                     |
|      |                     |                        |                     |                        | 5.5                 | 965                    |                     |                        |        |       |      |      |      |                                |      |     |      |                        |
| 160M |                     |                        | 11                  | 1460                   | 7.5                 | 970                    | 4                   | 720                    |        | 115   | 150  | 143  | 116  | 495                            | 545  | 610 | 550  | 90                     |
|      |                     |                        |                     |                        |                     |                        | 5.5                 | 720                    |        |       |      |      |      |                                |      |     |      |                        |
| 160L |                     |                        | 15                  | 1460                   |                     |                        |                     |                        |        | 135   | 169  | 165  | 136  | 560                            | 585  | 655 | 605  | 90                     |
| 180M |                     |                        | 18.5                | 1470                   | 11                  | 970                    | 7.5                 | 720                    |        | 172   | 205  | 203  | 169  | 590                            | 620  | 715 | 605  | 110                    |
| 180L |                     |                        | 22                  | 1470                   | 15                  | 970                    | 11                  | 730                    |        | 185   | 222  | 216  | 183  | 630                            | 640  | 765 | 705  | 110                    |
| 200  |                     |                        | 30                  | 1470                   | 18.5                | 970                    | 15                  | 730                    |        | 253   | 300  | 296  | 236  | 665                            | 695  | 790 | 740  | 110                    |
|      |                     |                        |                     |                        | 22                  | 970                    |                     |                        |        |       |      |      |      |                                |      |     |      |                        |
| 225S |                     |                        | 37                  | 1480                   |                     |                        | 18.5                | 730                    |        | 300   | 360  | 370  | 291  | 680                            | 705  | 860 | 730  | 130                    |
| 225M |                     |                        | 45                  | 1480                   | 30                  | 980                    | 22                  | 730                    |        | 335   | 390  | 405  | 327  | 705                            | 730  | 890 | 770  | 135                    |
| 250  |                     |                        | 55                  | 1480                   | 37                  | 980                    | 30                  | 730                    |        | 420   | 530  | 498  | 393  | 795                            | 795  |     | 860  | 115                    |
| 280S |                     |                        | 75                  | 1480                   | 45                  | 980                    | 37                  | 740                    |        | 560   | 660  | 633  | 520  | 860                            | 870  |     | 930  | 125                    |
| 280M |                     |                        | 90                  | 1480                   | 55                  | 980                    | 45                  | 740                    |        | 670   | 785  | 723  | 610  | 920                            | 920  |     | 980  | 125                    |
| 315S |                     |                        | 110                 | 1480                   | 75                  | 980                    |                     |                        |        | 920   | 1000 | 1150 | 950  | 1010                           | 1100 |     | 1285 |                        |
| 315M |                     |                        | 132                 | 1480                   | 90                  | 980                    |                     |                        |        | 1050  | 1100 | 1230 | 1030 | 1180                           | 1180 |     | 1380 |                        |
| 315L |                     |                        | 160                 | 1480                   | 110                 | 980                    |                     |                        |        | 1160  | 1100 | 1320 | 1100 | 1200                           | 1270 |     | 1450 |                        |
|      |                     |                        | 200                 | 1480                   | 132                 | 980                    |                     |                        |        | 1240  | 1600 | 1420 | 1200 |                                |      |     |      |                        |

**S、F、K系列锁紧盘尺寸图** Dimensions of shrink disk for S、F、K series

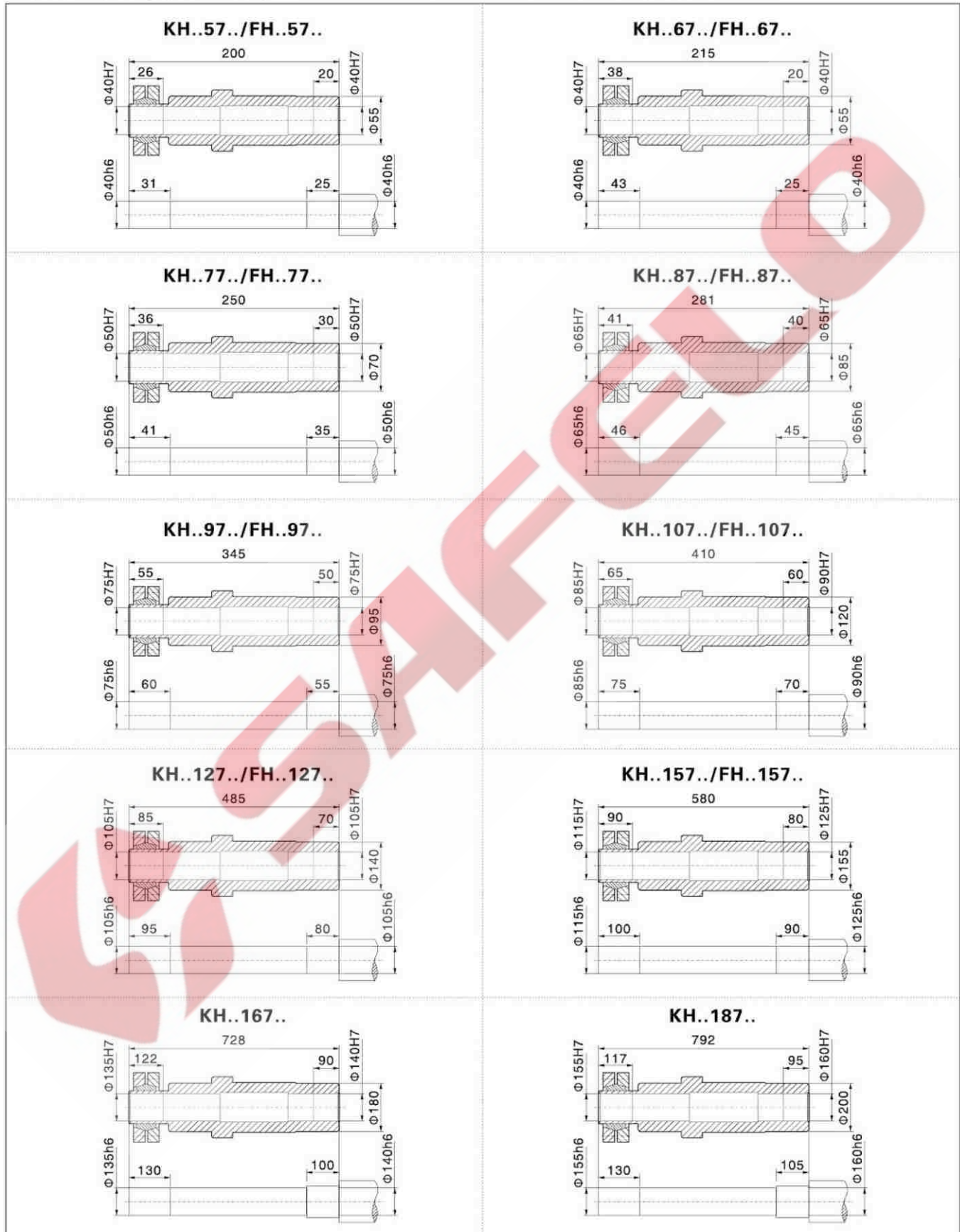


注：1.四大系列带锁紧盘型减速机除输出轴不同外，其余均同平键空心轴标准产品。

Note: 1.Except the output shaft, the main four series gear units with shrink disk are the same as the standard ones with hollow shafts with plat key.



S、F、K系列锁紧盘尺寸图 Dimensions of shrink disk for S、F、K series



注：1.四大系列带锁紧盘型减速机除输出轴不同外，其余均同平键空心轴标准产品。

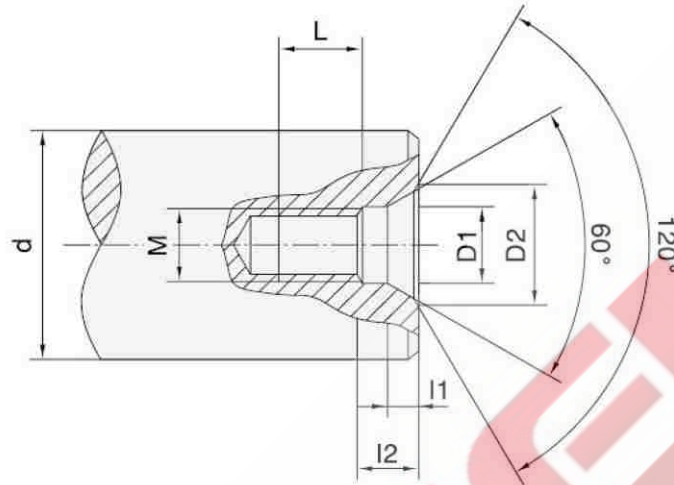
Note: 1.Except the output shaft, the main four series gear units with shrink disk are the same as the standard ones with hollow shafts with plat key.

出轴/入轴轴端螺纹孔:

Screw hole in shaft end:

R、S、K、F、T、JW、H、B、P、RV轴端单螺孔(C型带螺纹的中心孔):

R、S、K、F、T、JW、H、B、P、RV series' s single screw hole in shaft end (C screw hole):



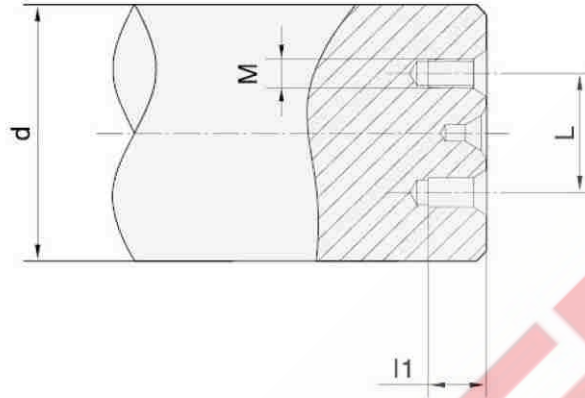
| d             | M   | L  | l2  | l1  | D1   | D2   |
|---------------|-----|----|-----|-----|------|------|
| 7 < d ≤ 10    | M3  | 10 | 2.6 | 1.8 | 3.2  | 5.8  |
| 10 < d ≤ 13   | M4  | 10 | 3.2 | 2.1 | 4.3  | 7.4  |
| 13 < d ≤ 16   | M5  | 10 | 4   | 2.4 | 5.3  | 8.8  |
| 16 < d ≤ 21   | M6  | 12 | 5   | 2.8 | 6.4  | 10.5 |
| 21 < d ≤ 24   | M8  | 12 | 6   | 3.3 | 8.4  | 13.2 |
| 24 < d ≤ 30   | M10 | 15 | 7.5 | 3.8 | 10.5 | 16.3 |
| 30 < d ≤ 38   | M12 | 20 | 9.5 | 4.4 | 13   | 19.8 |
| 38 < d ≤ 50   | M16 | 25 | 12  | 5.2 | 17   | 25.3 |
| 50 < d ≤ 85   | M20 | 30 | 15  | 6.4 | 21   | 31.3 |
| 85 < d ≤ 130  | M24 | 35 | 18  | 8   | 25   | 38   |
| 130 < d ≤ 225 | M30 | 45 | 18  | 11  | 31   | 48   |
| 225 < d ≤ 320 | M36 | 55 | 22  | 15  | 37   | 60   |
| 320 < d ≤ 500 | M42 | 60 | 26  | 19  | 43   | 71   |
| 500 < d ≤ 710 | M48 | 65 | 30  | 23  | 49   | 83   |

注: 轴端双螺纹孔时, 订货时需特殊说明。

Note: If two holes in shaft-end are necessary, please make a specification for it when placing an order.

轴端双螺孔:

Double screw holes in shaft end:



| 轴端双螺孔<br>Double screw hole in shaft end |     |    |    | 轴端双螺孔<br>Double screw hole in shaft end |     |    |     |
|---|-----|----|----|---|-----|----|-----|
| d                                       | M   | l1 | L  | d                                       | M   | l1 | L   |
| 40 < d ≤ 45                             | M8  | 12 | 20 | 150 < d ≤ 165                           | M12 | 20 | 120 |
| 45 < d ≤ 50                             | M8  | 12 | 22 | 165 < d ≤ 180                           | M16 | 28 | 130 |
| 50 < d ≤ 60                             | M10 | 18 | 26 | 180 < d ≤ 210                           |     |    | 160 |
| 60 < d ≤ 70                             |     |    | 36 | 210 < d ≤ 230                           |     |    | 160 |
| 70 < d ≤ 80                             |     |    | 50 | 230 < d ≤ 280                           | 180 |    |     |
| 80 < d ≤ 100                            | M12 | 20 | 60 | 280 < d ≤ 290                           | M20 | 38 | 190 |
| 100 < d ≤ 110                           |     |    | 70 | 290 < d ≤ 310                           |     |    | 220 |
| 110 < d ≤ 120                           |     |    | 80 | 310 < d ≤ 330                           | M24 | 45 | 230 |
| 120 < d ≤ 130                           |     |    | 85 | 330 < d ≤ 340                           |     |    | 240 |
| 130 < d ≤ 140                           |     |    | 90 | d > 340                                 |     |    | 250 |
| 140 < d ≤ 150                           | 110 |    |    |   |     |    |     |

注: 轴端双螺孔时, 订货时需特殊说明。

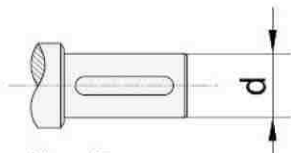
Note: If two holes in shaft-end are necessary, please make a specification for it when placing an order.

输出、输入部分公差标准:

Tolerance for input and output parts:

轴径公差:

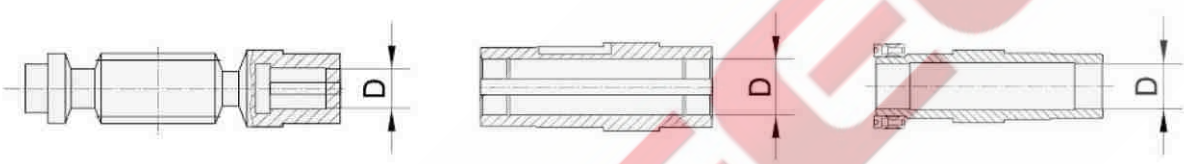
Tolerance for shaft diameter:



| 轴 径<br>Shaft diameter | 公差<br>Tolerance |
|-----------------------|-----------------|
| $d \leq 50$           | K6              |
| $50 < d \leq 250$     | m6              |
| $d > 250$             | n6              |

蜗杆、空心轴孔径公差:


Worm, hollow shaft diameter tolerance:



| 孔 径<br>Hole diameter | 公差<br>Tolerance |
|----------------------|-----------------|
| D                    | H7              |

输出法兰凸肩和螺母公差:

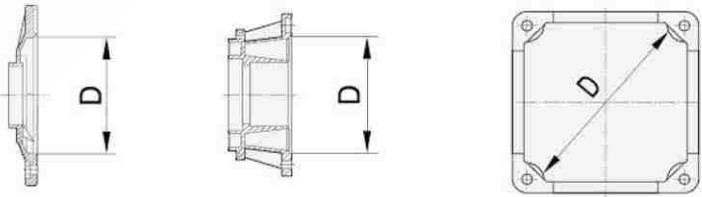
Nut, flange protruding step tolerance:



| 凸肩直径<br>d | 公差<br>h7 |
|-----------|----------|
| d         | h7       |

输出法兰、底座定位凹肩公差:

Flange, housing base concave step tolerance:



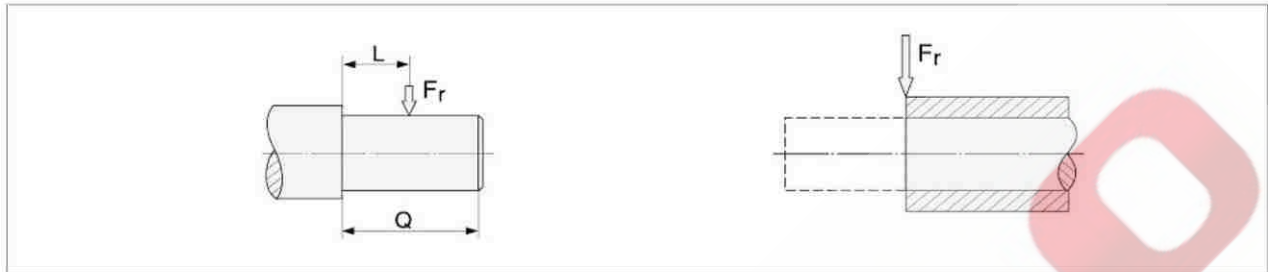
| 凹肩直径<br>D | 公差<br>H7 |
|-----------|----------|
| D         | H7       |

径向力Fr和轴向力Fa:

Radial loads "Fr" and axial loads "Fa" of output shaft:

输入、输出轴径向力的计算:

Calculation of radial force Fr:



$$Fr1 = \frac{T1 \times f \times Lf}{r}$$

$$Fr2 = \frac{T2 \times f \times Lf}{r}$$

Fr1、Fr2: 输入、输出轴上的径向力大小 (N)  
f: 轴上所装配零件径向力系数 (表1)  
Lf: 载荷位置系数 (表2)  
r: 轴的半径 (m)

Fr1、Fr2: Input,output radial force value (N)  
f: Radial force factor of parts on shaft (table 1)  
Lf: Load position factor (table 2)  
r: Radium of shaft (mm)

径向力系数Radial force factor:(f) 表Table 1

| 链轮<br>Chain wheel | 齿轮<br>Gear | V带轮<br>V belt wheel | 平带轮<br>Flat belt wheel |
|-------------------|------------|---------------------|------------------------|
| 1.00              | 1.25       | 1.5                 | 2.0                    |

载荷位置系数Load position factor:(f) 表Table 2

| L/Q | ≤0.5 | 0.75 | 1 |
|-----|------|------|---|
| Lf  | 1    | 1.5  | 2 |

当不受径向力时, 许用轴向力  
 $Fa=Fr/2$

Permissible axial loads  $Fa=Fr/2$   
without radial loads Fr.

需很大的许用轴向力和许用径向力请向我们另行咨询, 因为有些行业用途时结构(例轴承)需作一些变动。

Radial loads Fr are very big, please contact us because of some modification depending on different industry.

工作周期ED:

Working circle:

$$ED = \frac{t_f}{t_f + t_r} \cdot 100\%$$

t<sub>f</sub>: 带负载的工作时间; t<sub>r</sub>: 停歇时间。

t<sub>f</sub>: Period under load; t<sub>r</sub>: Period of repos.

噪声:

应提供允许的声压水平 (dB) 最大值, 当声压超过这一水平时, 可以采用吸音罩罩住, 若需可提供在敞开场地的瑞德森标准声压值。

Noise:

Usershould offer permissible sound pressure maximum value(dB), if noise is greater than maximum value, please use cover of sound absorption. If requiring, REDSUN may offer normal noise intensity value in open field.

### 减速机的选型所需的参数

减速机的选择用户应提供以下尽量详细的技术要求、载荷周期和运行条件，瑞德森公司将可为客户完成最后的选择，保证减速机的质量、经济和可靠性。

为了确保承诺的有效性，主要承包商对传动系统的坚固性负责，通过影响因素进行控制，连接传动部分必须协调。用户需在规定的范围内安装、润滑、使用、运行、维护，不受极限速度、扭矩、振动的影响。

#### 被动设备

- 名称和种类
- 负载性质（使用冲击系数或惯量）
- 运行负载
- 输出功率
- 输出转速  $n_2(\text{rpm})$ :
- 输出扭矩  $T_2(\text{N} \cdot \text{m})$ :
- 连续使用时间 小时/天 小时/月 小时/年
- 起动力矩和频率
- 制动力矩和频率
- 冲击负载、峰值负载和频率
- 正反运转和频率
- 径向、轴向负载

原动机(或电动机是否正反转及其频率，输出轴径向和轴向负载)

- 型号和种类
- 额定功率和转速
- 最大扭矩
- 起动转矩
- 转动惯量直连电动机时，参照电动机的说明
- 代号及附件
- 电机接线盒位置是否指定

减速器（所选减速器必须能经受起动、制动、冲击力矩等影响）

- 要求的型号
- 安装形式
- 安装方位
- 输出形式
- 电源
- 润滑（飞溅润滑、强制润滑）
- 冷却：不附加冷却装置（即风冷）  
强制风冷  
强制水、油冷却
- 噪声：要求声压值  $\leq$
- 其它附件

### Required parameter for motor selection

Reducer users should offer below detailed technical requirements, REDSUN would accomplish final selection for client and assure reducer's quality, economy, reliability. To ensure validity for promise.

To ensure validity for promise, main contractor should take charge of system ruggedness and transmission factor controlling, connecting pieces must harmonize with transmission components. User must use reducer, operate reducer and maintain reducer properly in the stated tang, and reducer is not influenced by limited speed, torque, vibration.

#### Passive equipment

- Name and variety
- Load character (use shock factor or inertia)
- Running load
- Output power(kW)
- Output speed(rpm)
- Output torque(N · m)
- Time of woking continuously(hour per day)
- Starting moment and frequency
- Brake momet and frequency
- Shock load,peak load and frequency
- Rotate in both directions and frequency
- Radial and axial load

Impelling force(or motor,if rotate in both direction and frequency of that, output shaft radial and axial load)

- Mode and variety
- Power rating and speed
- Maximal torque
- Starting torque
- Connect with motor directly, rotational inertia refer to specification of motor
- Code and appurtenances
- If position of the terminal box is special requirement.

Reducer (Selected reducer can stand up to influence of starting and brake and shock moment)

- Required model
- Mounting mode
- Mounting position
- Output mode
- Electrical source
- Lubrication(splash lubrication or forced lubrication)
- Cooling method: No cooling device(air blast)
- Cooling by fan
- Cooling by water or oil
- Noise(dB):required sound pressure value  $\leq$
- Other appurtenances

联接:

- 被驱动设备和减速器联接:
- 减速机和电动机或其它原动机联接:
- \* 当用皮带、链条或开式齿轮联接时, 必须告知装在轴端的皮带、链条或齿轮的直径, 以及中心距和负载方向。
- \* 如果使用刚性联轴器, 必须告知作用在轴上的轴向和径向负载。

环境条件:

- 周围温度、空旷场地、狭小场地、通风条件:
- 特殊条件: 高温、低温、灰尘、化学作用、直接日照、冰等

特殊要求:

- 例如: 外伸中间轴 (S、R、K、F、RV、H、B、P 都有可能)
- 制动停机 (例倾斜输送机)
- 特殊密封 (灰尘、严格要求的食品、化学原料等)
- 速度监测、保护、逆止器等

其它要求:

Connection:

- Driven equipment is connected with gear unit  
Gear unit is connected with motor or other drives.
- \* When gear unit is connected with belt, chain or gear, user must tell REDSUN their diameter, centre distance and load direction.
  - \* If gear unit is connected with rigid coupling, user must tell REDSUN radial and axial load applied on shaft.

Ambient condition:

- Ambient temperature, open field, narrow field, ventilation condition:
- Special condition: high temperature, low temperature, dust, chemistry, direct sun, ice etc:

Special requirement:

- Example: Extend intermediate shaft (it is possible for S、R、K、F、RV、H、B、P)
- Braking and stopping (Such as inclined conveyer)
- Special seal (dust, food and chemical material with special requirements.
- Speed monitor, protection, backstop.

Other requirement:

## 安装、使用、润滑说明

### 一般说明

减速机的安装、操作、维护保养和修理人员均需阅读和理解本说明并遵守其中的规定。若因违反本说明的规定而造成的任何损伤和停机，本公司概不负责。

### 注意事项

- 一定不能用高压清理设备清洁减速机。
- 对减速机所进行检修、保养、维护、安装都必须在减速机不工作的情况下进行。
- 在减速机上不得进行焊接工作，也不得用作焊接工作的接地点。焊接会造成精密齿轮和轴承的不可修复的损坏。
- 如果在减速机的运行过程中发现了任何异常现象（例如过热或者不正常的噪声等），应该立即停机检查。
- 凡是旋转的零部件必须配备合适的防护罩以防止人员的意外接触，例如联轴器，液力偶合器，齿轮，驱动皮带轮等。
- 一定要遵守减速机上所附加的说明，例如铭牌、指示方向的箭头等。这些铭牌和标记上面不得有灰尘和油漆。
- 在组装或者解体工作中损坏了的螺栓一定要用同等强度和类型的新螺栓更换。
- 安装升降机时，台架面上的孔，在满足丝杆能方便通过的前提下，应尽可能小。
- 根据减速机的操作条件，减速机的表面、润滑油和零部件可能会达到相当高的温度，小心烫伤！
- 当更换润滑油的时候，要谨慎小心不要被热油烫伤。
- 减速机应该放置于无振动的干燥木制基座上并遮盖好。当储存减速机 and 任何单独的零部件的时候一定要做好防锈措施，以免生锈，储存时不得将减速机叠放在一起。
- 除订货合同中另外有所规定，否则减速机不得储存在或在工作在强酸、强碱、低温、高温和重度的空气污染、潮湿，具有化学物品的场所。
- 在搬运减速机时，一定要特别小心，应防止撞击轴端，因为这样将有可能造成减速机的损坏，在吊运减速机时，不得将吊环螺钉挂在轴端处的螺纹上。
- 除订货合同中另外有所规定，减速机和无级变速器工作环境温度不超过40摄氏度，温升低于40摄氏度。
- MB 无级变速器出厂时，调速限位螺钉已经调整在极限位置，不得任意调整，以免损坏零件。
- MB 无级变速器必须在开机情况下方可调速，否则会损坏零件。

## Installation, usage, lubrication

### General

It must be read and understood by operators, maintenance and repair persons. And they must comply with all regulations in this manual. Any damages and stop of machine caused by wrong operation will be buyer's responsibility.

### Notes

- Gear units can not be cleaned by high-pressure cleaning machine.
- Repair, maintenance, installation must be made with gear unit powered off.
- No welding can be made on gear units, and it cannot be a welding ground point. Welding will cause irreparability of precision gears and shafts.
- During running, gear units must be stopped immediately for check once any problem (such as over heated and high noise) occurs.
- Any rotating parts will be equipped with appropriate shields in order to keep it from accidental touch. Such as couplings, hydraulic couplings, gears, driving belt wheels.
- Please note the instructions attached on gear units, such as label, arrow indicating direction. And they will be kept clean without dust and oil.
- The bolts damaged in installation or dismantlement should be replaced with new one of the same tension and type.
- When installing screw jacks, the screw holes in mounting plate should be as small as possible up to bolts' diameter.
- When gear units running, its temperature may get up to a high point, please take care, there is a danger of scald.
- When changing lubrication, please be careful not to be scalded by hot oil.
- Gear units should be put on dry wooden non-vibration base and be covered. When storing gear units and their components, we should take rust-proof measures, and we cannot pile up gear units.
- Unless there are special requirements in contracts, gear units cannot be stored or work in places with acid, alkali, low temperature, high temperature, heavy air pollution, damp, chemical products.
- When removing gear units, please be careful to avoid knocking shaft end and damaging; when swinging them, bolts of swinging rings cannot put in screw holes in the shaft ends.
- Unless there are special requirements in contracts, ambient temperature of gear units and variable speed drives is below 40°C, and temperature rise should lower 40°C.
- Before delivery of MB series, speed-limiting screw has been adjusted to an extreme point to protect spare parts. And speed adjustment must be done after the drives start up, or the drives will damage.



- 减速机、无级变速机应在许用转矩范围内使用，超扭矩使用应在输出轴上装安全装置，以免减速机损坏。
- 各种减速机、无级变速机适用于连续运转，并允许正反两向运转。（配逆止器时除外）
- 若出现安装方位变动，一般情况下调换油镜、油塞、通气帽即可。
- 备件一定要从瑞德森机械有限公司购买。

### 安装与拆卸

关于安装的综合信息：在户外安装时应该避免阳光的直射，一定要避免热力集中影响减速机的正常性能。

#### 整机安装

- 1) 准备刚性好的基础或牢固的台架来安装传动设备，同时也需充分考虑即使加上最大载荷也不至于改变装配好后各部件的位置。
- 2) 底座式安装应校准中心高，联轴器联接时应校准两轴的同轴度；柔性联轴器时浮动量不超过联轴器的允许范围，刚性连接时保证各安装联接的形位公差；长轴联接还要考虑轴的足够刚度。
- 3) 法兰式安装，凸肩（或凹肩）应配合良好，以免错位。法兰式安装并配空心轴联接时，特别应保证联接处的形位公差。
- 4) 扭力臂安装，空心轴与工作轴应配合良好，工作轴的浮动或设备振动应小于弹性块允许的范围，力臂应固定并锁紧。
- 5) 在减速机上安装驱动零件时（如联轴器、齿轮、链轮等），如果需要预加热，则必须保护好轴上的油封，要用防热屏减少热辐射。
- 6) 输出轴加装联轴器、皮带轮、齿轮、链轮等时，请勿重击，应用输出轴外端螺孔，压入连接件。皮带轮、链轮、搅拌式还需考虑径向力。

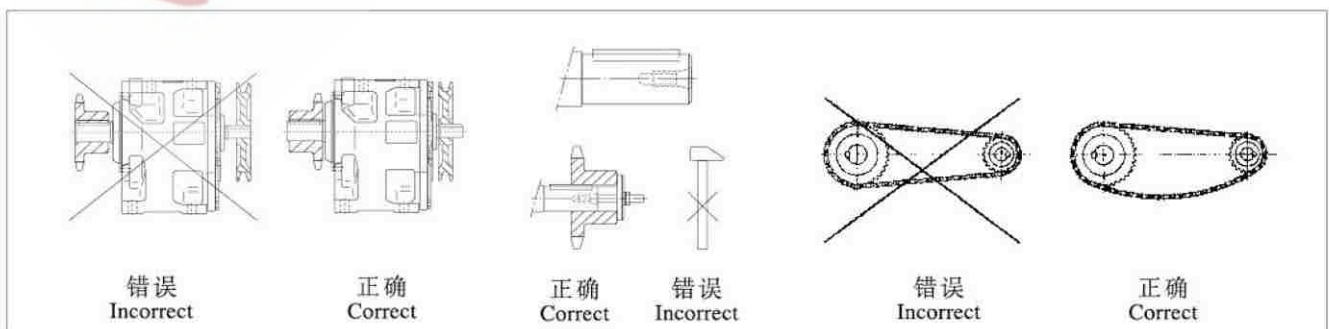
- Gear units and MB should run under permissible torque, safety devices should be equipped to avoid damage if load is larger permissible torque.
- Gear units and MB can run continuously and are permitted to rotate in both directions.
- If mounting position changes, the positions of breather screw, oil level, oil drain plug will be change with each other as usual.
- Spare parts must be purchased from REDSUN.

### Installation and dismantlement

Installing gear units should avoid direct sunshine and heat concentration to guarantee smooth running.

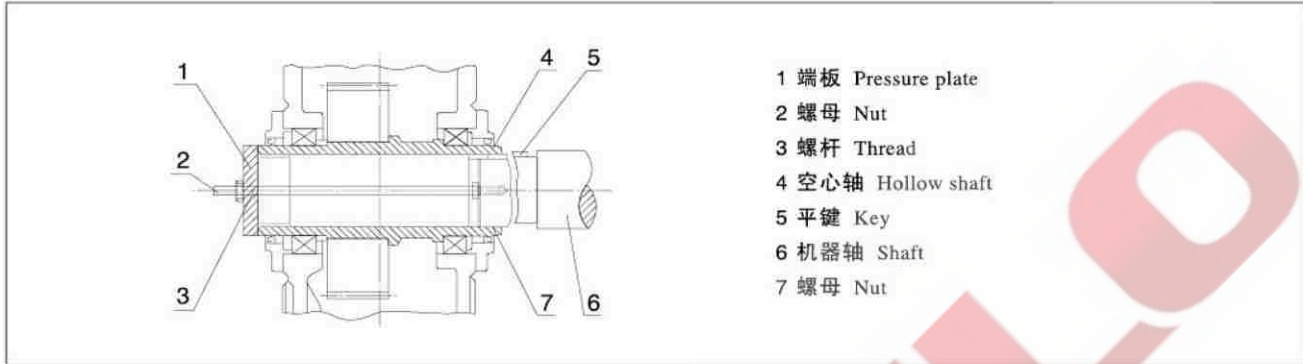
#### Installation of whole units

- 1) Please choose foundation with good rigidity or stable plat form to install transmission devices. In the meantime, also should take full consideration that the positions of all parts will not change even if maximum torque is loaded on units.
- 2) Choosing foot-mount, the height of centre line should be calibrated; Choosing coupling-connect, coaxiality should be calibrated; Choosing flexible coupling, run-out should keep within permissible values; Choosing rigid coupling, contour and position tolerance should be guaranteed; Choosing long coupling, rigidity of shaft should be enough.
- 3) Flange-mount, protruding or concave steps should inosculate with housings; using hollow shaft, contour and position tolerance at connection parts should be guaranteed.
- 4) Torque-arm-mount, hollow shafts should be fit with working shafts; run-out of working shafts and vibration of units should be within range of vibration values, torque arm should be fixed and locked.
- 5) Mounting driving parts such as couplings, gears, gear chains, if pre-heat is necessary, seal should be protected by using heat-proof shelter to diminish heat radiation.
- 6) Installing couplings, belt wheels, gears, chain gears on output shafts, please use screw hole in shaft end to press them in the correct position (see following pictures). And radial force should be considered in case of Belt wheel, chain gears and agitation mode.



7) 空心轴与实心轴连接时，应清理干净并涂防锈油(空心轴一定要精密对中)。除了在图中所示的螺母和螺杆以外，还可以使用其它类型的装置例(如液压提升装置)。

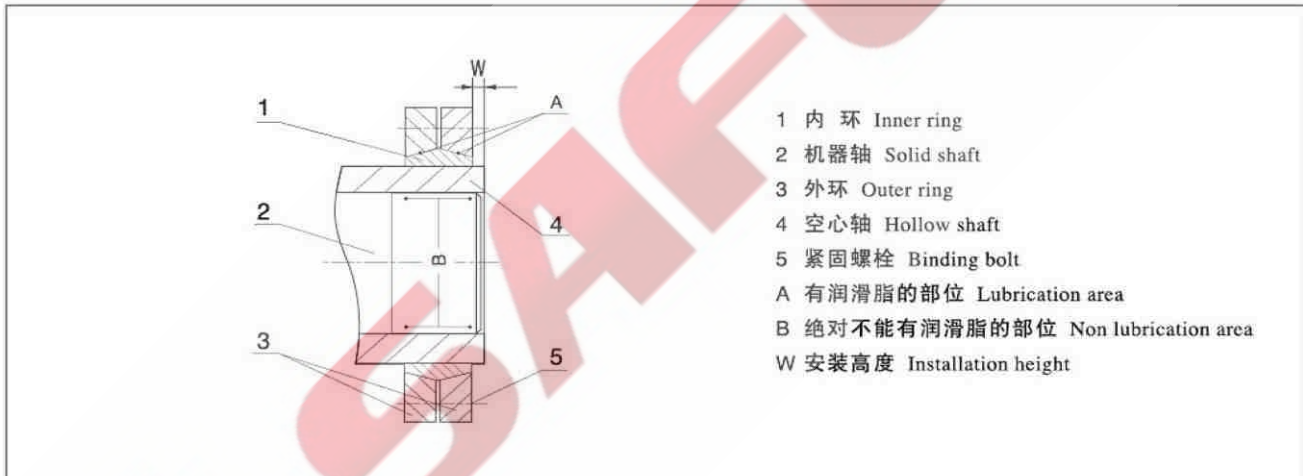
7) When connecting hollow shaft and solid shaft, please clean the surface and put anti-corrosive oil on it. When connecting, besides nuts and threads illustrated in the drawing below, other installing tools such as oil hydraulic devices can be used.



- 1 端板 Pressure plate
- 2 螺母 Nut
- 3 螺杆 Thread
- 4 空心轴 Hollow shaft
- 5 平键 Key
- 6 机器轴 Shaft
- 7 螺母 Nut

8) 当空心轴配置收缩盘时，为了安全起见在收缩盘上应加防护罩；空心轴的孔和工作轴在收缩盘的区域里面一定不能涂有润滑脂。在安装机器的轴之前不要拧紧紧固螺栓。

8) When hollow shaft equipped with shrink disk, protect shield should be installed on shrink disk for safety. Connecting area (equipped shrink disk) of hollow shaft and solid shaft must not be put lubrication cream. Before installing solid shaft, not tighten binding bolts.



- 1 内环 Inner ring
- 2 机器轴 Solid shaft
- 3 外环 Outer ring
- 4 空心轴 Hollow shaft
- 5 紧固螺栓 Binding bolt
- A 有润滑脂的部位 Lubrication area
- B 绝对不能有润滑脂的部位 Non lubrication area
- W 安装高度 Installation height

9) 安装螺栓一般情况下采用 8.8 级，如果有高温或者振动冲击等情况，请在螺纹连接处作好防松措施。各个紧固螺栓的拧紧扭矩见下表：

9) Generally fixing bolts adopt GB8.8. In case of high temperature and vibration, please take anti-loose measures. The tightening torques of binding bolts as follows

| 螺栓大小 (mm)<br>Diameter of bolt | 预紧力矩 (N·m)<br>Pre-binding-torque | 螺栓大小 (mm)<br>Length of bolt | 预紧力矩 (N·m)<br>Pre-binding torque |
|-------------------------------|----------------------------------|-----------------------------|----------------------------------|
| M6                            | 15                               | M30                         | 2000                             |
| M8                            | 36                               | M36                         | 3560                             |
| M10                           | 72                               | M42                         | 5720                             |
| M12                           | 123                              | M48                         | 8640                             |
| M16                           | 295                              | M56                         | 13850                            |
| M20                           | 580                              | M64                         | 14300                            |
| M24                           | 1000                             | M72                         | 20800                            |

**拆卸**

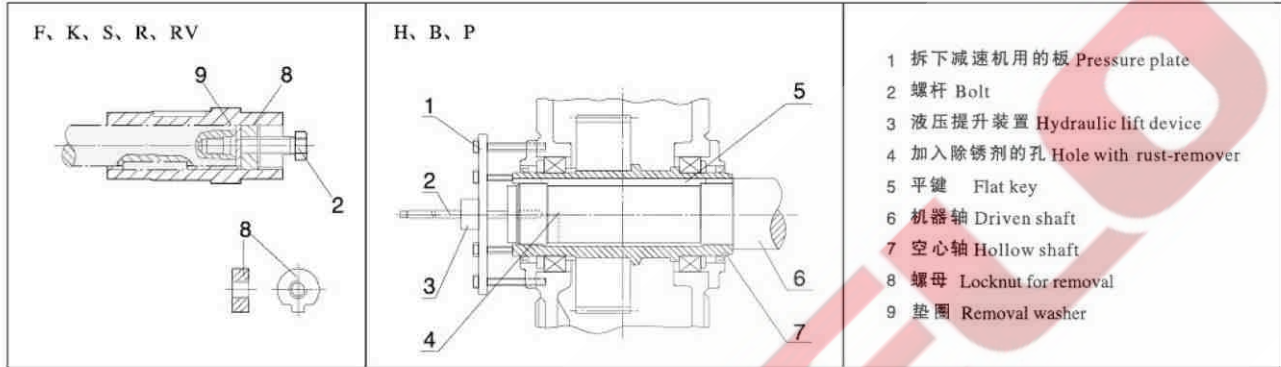
1) 空心轴的拆卸

根据现场实际可使用的设备，可以用端板上的螺杆（参见下图）、中心螺杆或者液压提升装置将减速机从机器轴上脱下来。空心轴的每个端面都配备了2个螺丝孔可以拧入固定端板的螺栓。

**Dismantlement**

1) Dismantle hollow shaft

According to tools available on the spot, Bolts on pressure plate, center bolt, oil hydraulic device are available to dismantle gear units from driven solid shaft. There are two screw holes in the end surface of hollow shaft for tightening bolts fixing pressure plate.



注：端板和辅助板不在供货范围内。（空心轴端螺纹孔的分布和大小请参照本公司技术图纸）。

Note: Pressure plate and attached plate are not included in shipment. (Screw holes on hollow shaft end refer to drawings)

2) 当空心轴配置收缩盘时，在首次受力之前一定不能拆下来。拆卸时严禁按照相邻的顺序松开螺栓。

2) When hollow shaft equipped with shrink disk, it is prohibited to loosen bolts one by one in a round way.

**润滑与冷却**

**润滑**

1) 润滑油的选择：

**Lubrication and cooling**

**Lubrication**

1) Choosing lubrication oil, as following table:

| 系列<br>Series of reducer | 环境温度<br>Ambient temperature |     |          | ISO粘度与NLGI相应<br>Adhesiveness of ISO<br>and NLGI unitive | ESSO            | Mobil                 | SHELL                | GB牌号<br>L-CK |
|-------------------------|-----------------------------|-----|----------|---|-----------------|-----------------------|----------------------|--------------|
|                         | -50                         | 0℃  | +50 +100 |   |                 |                       |                      |              |
| R. F. K. T. H.<br>B. P  | -25                         | +40 | +80      | VG220   |                 | Mobil Glygoyle 30     | Shell Tivela OIWS    | N220         |
|                         | -15                         | +25 |          | VG220   | SPARTAN EP 220  | Mobilgear 630         | Shell Omala OI220    | N220         |
|                         | -30                         | +10 |          | VG150 VG100   | SPARTAN EP 150  | Mobilgear 628         | Shell Omala OI 100   | N150         |
|                         | -20                         | +10 |          | VG68-46 VG32  | ESSOATF D-21611 | Mobil D. T. E. 15M    | Shell Tellus OI T 32 | N68          |
| RV, S                   | -20                         | +10 |          | VG22 VG15   | UNIVIS J 13     | Mobil D. T. E. 11M    | Shell Tellus OI T 15 | N22          |
|                         | -45                         | 0   | +60      | VG680   |                 | Mobil Glygoyle HE 680 |                      | N680         |
|                         | 0                           | +40 |          | VG680   | SPARTAN EP 680  | Mobilgear 636         | Shell Omala OI 680   | N680         |
|                         | -15                         | +25 |          | VG220   | SPARTAN EP 220  | Mobilgear 630         | Shell Omala OI 220   | N220         |
| JW                      | -20                         | +10 |          | VG150 VG100   | SPARTAN EP 150  | Mobil D. T. E. 18M    | Shell Omala OI 100   | N150         |
|                         | -25                         | +10 |          | VG220   |                 | Mobil Glygoyle 30     |                      | N220         |
|                         | -45-20                      |     |          | VG22 VG15   | UNIVIS J 13     | Mobil D. T. E. 11M    | Shell Tellus OI T 15 | N22, N15     |

升降机的润滑油选择：JW010-JW200，选000#钙基润滑脂；JW300-JW1000，选VG150齿轮润滑油。  
Lubrication oil: JW010-JW200, 000# calcium grease; JW300-JW1000, VG150 gear lubrication.

2) 润滑油的更换

要用和原来的润滑油同一牌号、同一厂家的润滑油。更换润滑油品种时，要用润滑油将减速机箱体里面的沉积物、金属颗粒和残留的润滑油都冲洗干净。

2) Change of lubrication oil

Changing lubrication oil, it must be the same type and produced by the same factory. If type is different, must completely remove deposits, metal grains, residues of the old oil in housing with new lubrication oil.

对于升降机在其正常工作前，都必须对丝杆表面涂抹润滑油，将丝杆升到最大行程，然后在丝杆表面涂抹润滑油。

Before screw jacks running, must lubricate screw threads with lubrication cream. Let threads get up to highest point and lubricate threads.

3) 润滑方式：

- A. 油池润滑：一般情况下减速机都采用油池飞溅润滑；
- B. 浸油润滑：所有的齿轮和轴承都浸没在润滑油里面；
- C. 强制润滑：是靠辅助设备将润滑油强制压入齿轮箱内对轴承和齿轮进行润滑的。
- D. 稀油站集中润滑：客户可以根据实际情况自配润滑系统。

3) Lubrication methods

- A. Splash lubrication: generally gear units adopt or splash lubrication.
- B. Oil-bath lubrication: all gears and bearings must immerse in oil.
- C. Forced lubrication: attached devices press oil into housing to lubricate gears and bearings.
- D. Oil tank lubrication: Customers can equip lubrication system accordingly.

**冷却**

根据要求，有些减速机可配备风扇、冷却螺旋管、水冷或者空冷的润滑油冷却系统或者单独的供油系统。在单独的供油系统的情况下，一定要遵守有关这些装置的规定。

1) 风扇:

带有风扇的减速机，在安装联轴器或其它零部件的安全防护罩的时一定要留出足够的空间让空气进入。所留出空间的正确尺寸请参照我公司技术图纸。一定要将风扇罩固定好并防止外界的损坏而且不能和风扇叶接触。

2) 冷却螺旋管:

冷却水要由用户自行提供。自来水、海水还是半咸水都可以进行冷却，在连接冷却水的螺旋管之前要先将堵头从冷却水盘管的连接衬套上取下来并彻底冲洗螺旋管将脏物清理干净。（冷却水的流量请参照我公司技术图纸。）

**注：**冷却水可以任意方向流过减速机。冷却水的压力不得超过8巴。为了避免过高的压力，冷却水的入口必须要配备一个流量控制装置，例如减压阀或者截止阀。

**起动**

要遵守“安全说明”中的规定。

添加润滑油:

本公司产品一般都未带润滑油出厂，在设备运行前请先加入润滑油。

核查设备:

- 1) 检查油面高度，润滑油冷却或者供油系统管路的密封性。
- 2) 检查冷却装置，截止阀的开启状态
- 3) 配备了止回装置的减速机，检查电机接线是否正确。
- 4) 检查轴封是否有效。
- 5) 检查旋转的零部件是否与其它零件接触。

配置了电动油泵的减速机应当保证在启动设备前首先开启油泵电机。

**故障、原因和措施**

维修工作一定要由经过培训的素质合格的人员谨慎地进行。

**Cooling**

For different requirements, gear units can be equipped with cooling fans, cooling coils, water or air cooling systems, separate oil supply systems. Under condition of separate oil supply system, please comply with its operation regulations.

1) Cooling fan:

When gear units with cooling fans are installed safety shield of couplings or other spare parts, enough space should be left to let air get into. The dimension of the space refers to our technical drawings. The fan shield should be fastened and protected against damage, and cannot touch the leaves of fan.

2) Cooling coil:

Cooling water is supplied by customers. Tap water, seawater, half salt water can applied to cooling. Before installing cooling coils, please get the plug off the coil clean it. (water flux refer to our technical drawings)

**Note:** Cooling water can flow through gear units in all directions. The pressure of cooling water cannot exceed 8 bar. To avoid higher pressure, a flux controller should be installed at the entrance of cooling coil such as decompression valve or cut-off.

**Start up**

Please comply with the regulations in safety instructions

Add lubrication oil:

Generally there is no lubrication oil in our products. Please add oil before machines begin running.

Verify machines:

- 1) Check oil level, air-proof of cooling system or oil supply system.
- 2) Check the open-and-close state of cooling devices and cut-off.
- 3) Check the position of input wires when gear units are equipped with anti-counter-rotation devices.
- 4) Check validity of seals.
- 5) Check if the rotating components touch other ones.

Make sure that electric oil pump should start up before the start-up of gear units.

**Malfunction, cause and measure**

Maintenance should be made by qualified workers.

| 故障<br>Malfunction                                | 原因<br>Causes                             | 措施<br>Measures  |
|--|--|---|
| 在减速机的紧固件处有大的噪声<br>High noise at tightening parts | 紧固件松动了<br>Loose of tightening parts      | 将螺栓/螺母拧紧到规定的扭矩。<br>更换损坏了的螺栓/螺母。<br>Tighten nut bolt to correct state<br>Replace damaged nut/bolt                    |
| 减速机的噪声变化<br>Changing noise                       | 齿轮的轮齿发生了损坏<br>Teeth of gears get damaged | 和客户服务部联系。<br>检查所有零件上的齿，更换损坏了的零件。<br>Consult after-sales department<br>Check teeth of gears and replace damaged one. |
|  | 轴承间隙过大<br>Clearance of bearings too big  | 和售后服务部联系。<br>调整轴承的间隙。<br>Consult after-sales department<br>Adjust the clearance of bearings                         |
|  | 轴承损坏<br>Bearings get damaged             | 和客户服务部联系。<br>更换损坏的轴承。<br>Consult after-sales department<br>Replace damaged bearings                                 |

| 故障<br>Malfunction                      | 原因<br>Causes   | 措施<br>Measures   |
|--|--|--|
| 轴承温度升高<br>Bearing temperature rise     | 箱体里面的油面过高或过低<br>Oil level is too high or low   | 在室温下检查油面的高度并按需加油。<br>Check oil level at room temperature and add on reduce oil   |
|  | 油过于陈旧<br>Oil is used too long  | 和售后服务部联系。<br>—检查上次换油的时间。<br>Consult after-sales department.<br>Check the date that oil be replaced last time.  |
|  | 油泵的机械故障<br>Malfunction of oil pump   | 和售后服务部联系。<br>检查油泵的工作是否正常，修理或换新的油泵。<br>Consult after-sales department.<br>Check if pump works normally, repair or replace it.                                   |
|  | 轴承损坏<br>Bearing damage   | 和售后服务部联系。<br>—查阅操作人员在振动测量中所获得的数据。<br>—检查并按需更换轴承。<br>Consult after-sales department.<br>—Look up the date about vibration.<br>—Check and replace it on request. |
| 工作温度过高<br>working temperature too high | 箱体里面的油面过高<br>Oil level is too high   | 检查油面的高度，如果有必要的话，调整。<br>Check oil level, and adjust if necessary.   |
|  | 油过于陈旧<br>Oil is used too long  | 和售后服务部联系。<br>检查上一次换油的时间，如果有必要的话就更换。<br>Consult after-sales department.<br>Check the date that oil was replaced last time, replace it if necessary.             |
|  | 油受到严重污染<br>Oil is polluted seriously   | 和售后服务部联系。<br>—换油。<br>Consult after-sales department.<br>—Replace oil.  |
|  | 在配备了润滑油冷却系统的减速机上：冷却剂的流量过低或者过高<br>Flux of cooling material is too high or low           | 全面调节进口和出口管道的阀门。<br>检查水冷装置的自由流量。<br>Adjust entrance and exit valves.<br>Check the flux of water cooling devices.  |
|  | 通过水冷装置的油流过低，其原因是：滤油器严重堵塞<br>Oil flux through water cooling devices is too low          | 清理滤油器。<br>Clean oil filter.  |
|  | 油泵的机械故障<br>油泵损坏<br>Malfunction of oil pump<br>oil pump damage                          | 和售后服务部联系。<br>—检查油泵的功能是否正常。<br>—修理或者换新。<br>Consult after-sales department.<br>—Check of oil pump works normally.<br>—Repair or replace it.                      |
|  | 在配备了风扇的减速机上：风扇罩的空气入口和/或箱体严重污染<br>Entrance of fan shield and housing polluted seriously | 清理风扇罩和箱体。<br>Cleanse fan shield and housing.   |
|  | 配备了冷却螺旋管的减速机：冷却螺旋管里面结垢<br>Residues in cooling coil                                     | 和售后服务部联系。<br>—清理或者更换螺旋管。<br>Consult after-sales department.<br>—Clean or replace cooling coil.   |

| 故障<br>Malfunction   | 原因<br>Causes   | 措施<br>Measures  |
|---|--|---|
| 轴承处的<br>振幅升高<br>Swing at<br>bearing higher  | 轴承损坏<br>Bearing is damaged   | 和售后服务部联系。<br>—检查并按需更换轴承。<br>Consult after-sales department.<br>—Check and replace bearing.  |
|   | 齿轮损坏<br>Gear is damaged  | 和售后服务部联系。<br>—检查并按需更换齿轮。<br>Consult after-sales department.<br>—Check and replaces gears.   |
| 止回装置的温度过高<br>止回功能的失效<br>Temperature of<br>anti-backstop too<br>high and it becomes<br>malfunction | 止回装置损坏<br>Anti-backstop becomes<br>malfunction                               | 和售后服务部联系。<br>—检查并按需更换止回装置。<br>Consult after-sales department.<br>—Replace anti-backstop   |
| 减速机漏油<br>Oil-leak of gear unit  | 箱体盖或者联接<br>处的密封不良<br>Sealing at cover and connection<br>notin good state     | 检查密封和连接处，如果必要的话，<br>更换新的。将连接处密封好。<br>Check air-proof and connection part,<br>replace them if necessary, and seal up connection part.        |
|   | 径向轴封环失效<br>Shaft seal is malfunction   | 和售后服务部联系。<br>—换新的径向密封环。<br>Consult after-sales department.<br>—Replace it.  |
| 油中有水<br>Water in oil  | 油中有杂物<br>Mixer in oil  | 用试管检查油的状态是否有水分存在。<br>实验室分析油。<br>Classify if there is water in oil by using tube.<br>Analyse oil in laboratory.                              |
|   | 润滑油冷却器或者<br>冷却螺旋管失效<br>Cooling coil is of mal-faction                        | 和售后服务部联系。<br>—找出并修理泄漏之处。<br>—更换冷却器或者螺旋管。<br>Consult after-sales department.<br>—Find out and repair leakage place.<br>—replace cooling coil |
|   | 减速机受到机器间通风过<br>来的凉空气而产生凝露<br>Cool air will cause water<br>drop in gear unit. | 用合适的保温材料将减速机保护起来。<br>关闭空气的出口或者在结构上改变其方向。<br>Shelter gear units with proper  |

注：对于客户自己无法排除的故障请和我公司  
售后服务部联系。

Note: Please consult after-sales department, if malfunction can not  
be removed by consumer s tehmselves.

**保养**

用户要定期对减速机进行维护和保养，要定期检查润滑油的使用状态，定期清理通气帽、风扇、冷凝管和减速机表面的灰尘和异物，保持减速机清洁，保证减速机的正常运行。

**措施期限备注：**

|   |   |
|---|---|
| 检查油温<br>Check oil temperature                       | 每日<br>Everyday  |
| 检查减速机的不正常的噪声<br>Check abnormal noise of gear units  | 每日<br>Everyday  |
| 检查油面高度<br>Check oil level                           | 每月<br>Every month   |
| 检查减速机的漏油<br>Check leakage                           | 每月<br>Every month   |
| 检验油中的水分<br>Analyse water                            | 400工作小时后，至少每年一次<br>Every 400 working hours. At least 1 years.               |
| 在起动之后的首次换油<br>Replace oil first time after start up | 在400工作小时后<br>Every 400 working hours.                                       |
| 其后的换油<br>Afterward oil replacement                  | 每18个月或者5000工作小时<br>Every 18 months or 5000 working hours                    |
| 清理滤油器<br>Clean oil filter                           | 每3个月<br>Every 3 months  |
| 清理通气帽<br>Clean breathe screw                        | 每3个月<br>Every 3 months  |
| 清理风扇、风扇罩和减速机箱体<br>Clean fan, fan shield and housing | 和换油同时进行<br>At the same time as replacing oil                                |
| 检查冷却螺旋管的沉积物<br>Check residues in cooling coil.      | 大约每2年，和换油同时进行<br>Every 2 years and the same time as replacing oil           |
| 检查润滑油空气冷却器<br>Check air-cooling devices             | 和换油同时进行<br>At the same time as replacing oil                                |
| 检查润滑油水冷却器<br>Check water-cooling devices            | 和换油同时进行<br>At the same time as replacing oil                                |
| 检查紧固螺栓的紧固程度<br>Check tightening bolt                | 第一次换油后，其后每隔一次换油<br>After first replacing oil, every 2times of replacing oil |
| 对于减速机的全面检查<br>Make an over all check                | 大约每2年和换油同时进行<br>Every 2 years and coincide with replacing oil               |

**Maintenance**

Users must maintain gear units periodically check oil state periodically clean breather screw, fan, cooling coil and surface of gear units periodically.Keep gear units clean and assure that gear units work smoothly.

**Maintenance periods:**

## 售后服务 After-sale service

各种传动设备，客户发现有质量问题时，不要先拆卸零件，应说明以下情况然后与本公司售后服务部联系，说明现象后确认问题所在，再采用较理想的方法处理。

When customers find some quality problem, please not dismantle the gear units and fill in the following form and contact out after-sales department. We will offer reasonable methods to resolve the problem.

型号规格 Model:

出厂日期 Date:

编号 Number:

已使用时间 Use time:

使用场合或主机名称 Ambience or main machine:

主机生产单位 Company that main machine was made in:

质量问题 Problem:

.....

.....

.....

.....

.....

.....

.....

.....

用户单位 (Name):

地 址 (Add):

电 话 (Tel):

传 真 (Fax):

邮 编 (Post):

联 系 人 (Link man):



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