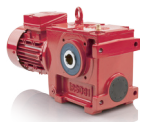


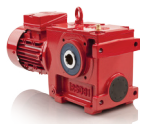
$n_1 = 1400$  d/d

| Servis Faktörü<br>Service Factor<br>Service Facteur<br><i>Sf = 1</i> | P1        | $n_2$             | $i_s$                | $i_t$                      | $\eta$     | $M_2$            | $F_{Q1}$         | $F_{Q10}$        | Tip<br>Type   |    |     | kg       |
|--|-----------|-------------------|----------------------|----------------------------|------------|------------------|------------------|------------------|---------------|----|-----|----------|
|  | GÜÇ       | Çıkış Devri       | Sonsuz V. Tahvili    | Toplam Tahvil              | Verim      | Çıkış Momenti    | Rad. Yük         | Rad. Yük         |               |    |     |          |
|  | Power     | Output Speeds     | Worm Ratio           | Total Ratio                | Efficiency | Output Torque    | Over Loads       | Over Loads       |               |    |     |          |
|  | Puissance | Vitesse de sortie | Rapport de réduction | Rapport de réduction total | efficience | Couple de sortie | Charges radiales | Charges radiales |               |    |     |          |
| [kW]<br>Hp   | [r.p.m]   |                   |                      | [ % ]                      | [Nm]       | [N]              | [N]              |                  |               |    |     |          |
| 270-420<br>Nm  | 0,26      | 5,1               | 82                   | 271,89                     | 56         | 270              | 420              | 6000             | İRSD<br>İRSDF | 53 | 166 | 13<br>15 |
|  | 0,30      | 5,8               |                      | 238,19                     |            | 270              | 420              | 6000             |               |    |     |          |
|  | 0,36      | 6,8               | 62                   | 205,58                     | 54         | 270              | 420              | 6000             |               |    |     |          |
|  | 0,41      | 7,7               |                      | 180,10                     |            | 270              | 420              | 6000             |               |    |     |          |
|  | 0,37      | 8,4               | 50                   | 166,04                     | 65         | 270              | 420              | 6000             |               |    |     |          |
|  | 0,46      | 9,6               |                      | 145,24                     |            | 290              | 420              | 6000             |               |    |     |          |
|  | 0,74      | 10,8              | 39                   | 129,32                     | 68         | 420              | 420              | 6000             |               |    |     |          |
|  | 0,85      | 12,3              |                      | 113,29                     |            | 420              | 420              | 6000             |               |    |     |          |
|  | 0,66      | 13,9              | 30                   | 100,85                     | 78         | 290              | 420              | 6000             |               |    |     |          |
|  | 1,1       | 15,7              |                      | 88,92                      |            | 420              | 420              | 6000             |               |    |     |          |
|  | 1,2       | 17,6              | 15                   | 79,44                      | 60         | 420              | 420              | 6000             |               |    |     |          |
|  | 1,2       | 18,1              |                      | 76,96                      |            | 410              | 420              | 6000             |               |    |     |          |
|  | 1,3       | 20,4              | 40                   | 68,40                      | 67         | 410              | 420              | 6000             |               |    |     |          |
|  | 1,5       | 22,9              |                      | 61,11                      |            | 410              | 420              | 6000             |               |    |     |          |
|  | 1,6       | 25,5              | 30                   | 54,83                      | 72         | 410              | 420              | 6000             |               |    |     |          |
|  | 1,8       | 28,3              |                      | 49,35                      |            | 410              | 420              | 6000             |               |    |     |          |
|  | 2,0       | 31,4              | 40                   | 44,55                      | 67         | 410              | 420              | 6000             |               |    |     |          |
|  | 2,2       | 34,7              |                      | 40,29                      |            | 410              | 420              | 6000             |               |    |     |          |
|  | 2,3       | 36,5              | 30                   | 38,28                      | 72         | 410              | 420              | 6000             |               |    |     |          |
|  | 2,6       | 41,3              |                      | 33,87                      |            | 410              | 420              | 6000             |               |    |     |          |
| 2,6  | 45,8      | 40                | 30,56                | 67                         | 410        | 420              | 6000             |                  |               |    |     |          |
| 2,9  | 51,0      |                   | 27,41                |                            | 410        | 420              | 6000             |                  |               |    |     |          |
| 3,2  | 56,7      | 30                | 24,68                | 67                         | 410        | 420              | 6000             |                  |               |    |     |          |
| 3,5  | 62,8      |                   | 22,27                |                            | 410        | 420              | 6000             |                  |               |    |     |          |
| 3,9  | 69,5      | 40                | 20,14                | 67                         | 410        | 420              | 6000             |                  |               |    |     |          |
| 4,1  | 73,1      |                   | 19,14                |                            | 410        | 420              | 6000             |                  |               |    |     |          |
| 4,6  | 82,6      | 15                | 16,94                | 78                         | 410        | 420              | 6000             |                  |               |    |     |          |
| 510-870<br>Nm  | 0,55      | 4,9               | 62                   | 285,89                     | 60         | 634              | 700              | 8700             | İRSD<br>İRSDF | 63 | 168 | 22<br>25 |
|  | 0,55      | 5,2               |                      | 267,58                     |            | 594              | 700              | 8700             |               |    |     |          |
|  | 0,66      | 6,1               | 53                   | 228,74                     | 68         | 692              | 700              | 8700             |               |    |     |          |
|  | 0,75      | 6,6               | 62                   | 210,26                     | 60         | 636              | 700              | 8700             |               |    |     |          |
|  | 0,77      | 7,7               | 53                   | 179,74                     | 68         | 636              | 700              | 8700             |               |    |     |          |
|  | 0,75      | 8,2               | 62                   | 169,93                     | 60         | 514              | 700              | 8700             |               |    |     |          |
|  | 1,1       | 9,6               | 53                   | 145,26                     | 68         | 730              | 700              | 8700             |               |    |     |          |
|  | 1,1       | 10                | 40                   | 135,57                     | 67         | 662              | 700              | 8700             |               |    |     |          |
|  | 1,0       | 11                | 53                   | 131,59                     | 68         | 602              | 700              | 8700             |               |    |     |          |
|  | 1,5       | 13                | 40                   | 109,63                     | 67         | 741              | 700              | 8700             |               |    |     |          |
|  | 1,4       | 14                | 30                   | 101,74                     | 72         | 698              | 700              | 8700             |               |    |     |          |
|  | 1,5       | 14                | 40                   | 99,31                      | 67         | 671              | 700              | 8700             |               |    |     |          |
|  | 1,5       | 16                |                      | 90,32                      |            | 610              | 700              | 8700             |               |    |     |          |
|  | 2,2       | 17                | 30                   | 82,22                      | 72         | 876              | 700              | 8700             |               |    |     |          |
|  | 2,2       | 19                | 40                   | 75,43                      | 67         | 747              | 700              | 8700             |               |    |     |          |
|  | 2,4       | 19                | 30                   | 74,48                      | 67         | 793              | 700              | 8700             |               |    |     |          |
|  | 2,4       | 21                |                      | 67,74                      |            | 721              | 700              | 8700             |               |    |     |          |
|  | 2,2       | 22                | 40                   | 63,59                      | 67         | 630              | 700              | 8700             |               |    |     |          |



$n_1 = 1400$  d/d

| Servis Faktörü<br>Service Factor<br>Service Facteur<br><i>Sf = 1</i> | P1        | $n_2$             | $i_s$                | $i_t$                      | $\eta$     | $M_2$            | $F_{Q1}$         | $F_{Q10}$        | Tip<br>Type   |         |       |           |      |       |
|--|-----------|-------------------|----------------------|----------------------------|------------|------------------|------------------|------------------|---------------|---------|-------|-----------|------|-------|
|  | GÜÇ       | Çıkış Devri       | Sonsuz V. Tahvili    | Toplam Tahvil              | Verim      | Çıkış Momenti    | Rad. Yük         | Rad. Yük         |               |         |       |           |      |       |
|  | Power     | Output Speeds     | Worm Ratio           | Total Ratio                | Efficiency | Output Torque    | Over Loads       | Over Loads       |               |         |       |           |      |       |
|  | Puissance | Vitesse de sortie | Rapport de réduction | Rapport de réduction total | efficience | Couple de sortie | Charges radiales | Charges radiales | [kW]<br>Hp    | [r.p.m] | [ % ] | [Nm]      | [N]  | [N]   |
| 510-870<br>Nm  | 2,20      | 23                | 40                   | 60,74                      | 67         | 602              | 700              | 8700             | İRSD<br>İRSDF | 63      | 168   | 22<br>25  |      |       |
|  | 2,20      | 25                | 30                   | 56,57                      | 72         | 602              | 700              | 8700             |               |         |       |           |      |       |
|  | 3,39      | 26                | 40                   | 53,79                      | 67         | 821              | 700              | 8700             |               |         |       |           |      |       |
|  | 3,00      | 29                |                      | 47,69                      |            | 693              | 700              | 8700             |               |         |       |           |      |       |
|  | 3,00      | 31                | 30                   | 45,56                      | 72         | 662              | 700              | 8700             |               |         |       |           |      |       |
|  | 4,46      | 35                |                      | 40,34                      |            | 871              | 700              | 8700             |               |         |       |           |      |       |
| 680-1870<br>Nm   | 0,75      | 4,1               | 82                   | 340,95                     | 60         | 1031             | 1100             | 13300            | İRSD<br>İRSDF | 73      | 170   | 55<br>60  |      |       |
|  | 1,10      | 4,7               |                      | 300,67                     |            | 1334             | 1100             | 13300            |               |         |       |           |      |       |
|  | 1,10      | 5,3               |                      | 63                         |            | 261,95           | 62               | 1201             |               |         |       |           | 1100 | 13300 |
|  | 1,10      | 6,1               |                      |                            |            | 231,00           |                  | 1059             |               |         |       |           | 1100 | 13300 |
|  | 1,50      | 6,8               | 208,43               |                            | 1284       | 1100             |                  | 13300            |               |         |       |           |      |       |
|  | 1,50      | 7,6               | 183,96               |                            | 1150       | 1100             |                  | 13300            |               |         |       |           |      |       |
|  | 1,50      | 8,5               |                      | 163,24                     |            | 1033             | 1100             | 13300            |               |         |       |           |      |       |
|  | 2,20      | 10                | 50                   | 145,24                     | 69         | 1482             | 1100             | 13300            |               |         |       |           |      |       |
|  | 2,20      | 11                |                      | 128,26                     |            | 1309             | 1100             | 13300            |               |         |       |           |      |       |
|  | 3,00      | 12                | 40                   | 116,19                     | 72         | 1687             | 1100             | 13300            |               |         |       |           |      |       |
|  | 3,00      | 14                |                      | 103,61                     |            | 1490             | 1100             | 13300            |               |         |       |           |      |       |
|  | 4,00      | 15                |                      | 91,20                      |            | 1766             | 1100             | 13300            |               |         |       |           |      |       |
|  | 4,00      | 16                |                      | 87,14                      |            | 1734             | 1100             | 13300            |               |         |       |           |      |       |
|  | 4,00      | 18                | 30                   | 76,96                      | 74         | 1531             | 1100             | 13300            |               |         |       |           |      |       |
|  | 5,50      | 20                |                      | 68,40                      |            | 1872             | 1100             | 13300            |               |         |       |           |      |       |
|  | 5,50      | 23                |                      | 61,11                      |            | 1672             | 1100             | 13300            |               |         |       |           |      |       |
|  | 5,50      | 26                |                      | 54,83                      |            | 1500             | 1100             | 13300            |               |         |       |           |      |       |
|  | 5,50      | 28                |                      | 49,35                      |            | 1350             | 1100             | 13300            |               |         |       |           |      |       |
|  | 5,50      | 31                |                      | 44,55                      |            | 1219             | 1100             | 13300            |               |         |       |           |      |       |
|  | 7,50      | 35                |                      | 40,29                      |            | 1503             | 1100             | 13300            |               |         |       |           |      |       |
|  | 7,50      | 38                |                      | 36,49                      |            | 1361             | 1100             | 13300            |               |         |       |           |      |       |
|  | 7,50      | 42                | 15                   | 33,08                      | 82         | 1234             | 1100             | 13300            |               |         |       |           |      |       |
|  | 7,50      | 46                |                      | 30,66                      |            | 1267             | 1100             | 13300            |               |         |       |           |      |       |
|  | 7,50      | 51                |                      | 27,41                      |            | 1133             | 1100             | 13300            |               |         |       |           |      |       |
| 7,50   | 57        | 24,68             |                      | 1020                       |            | 1100             | 13300            |                  |               |         |       |           |      |       |
| 7,50   | 63        | 22,27             |                      | 921                        |            | 1100             | 13300            |                  |               |         |       |           |      |       |
| 7,50   | 70        | 20,14             |                      | 833                        |            | 1100             | 13300            |                  |               |         |       |           |      |       |
| 7,50   | 77        | 18,24             |                      | 754                        |            | 1100             | 13300            |                  |               |         |       |           |      |       |
| 7,50   | 85        | 16,54             |                      | 684                        |            | 1100             | 13300            |                  |               |         |       |           |      |       |
| 1670-3540<br>Nm  | 1,50      | 4,2               | 83                   | 335,95                     | 62         | 2100             | 1550             | 18800            | İRSD<br>İRSDF | 83      | 172   | 97<br>107 |      |       |
|  | 1,50      | 4,7               |                      | 299,52                     |            | 1873             | 1550             | 18800            |               |         |       |           |      |       |
|  | 2,20      | 5,3               | 65                   | 263,10                     | 65         | 2529             | 1550             | 18800            |               |         |       |           |      |       |
|  | 2,20      | 6                 |                      | 234,57                     |            | 2255             | 1550             | 18800            |               |         |       |           |      |       |
|  | 3,00      | 7                 | 52                   | 210,48                     | 72         | 3056             | 1550             | 18800            |               |         |       |           |      |       |
|  | 3,00      | 7                 |                      | 187,65                     |            | 2725             | 1550             | 18800            |               |         |       |           |      |       |
|  | 3,10      | 9                 |                      | 168,48                     |            | 2447             | 1550             | 18800            |               |         |       |           |      |       |
|  | 3,20      | 10                |                      | 152,15                     |            | 2209             | 1550             | 18800            |               |         |       |           |      |       |
|  | 5,50      | 11                | 40                   | 129,60                     | 74         | 3546             | 1550             | 18800            |               |         |       |           |      |       |



$n_1 = 1400$  d/d

| Servis Faktörü<br>Service Factor<br>Service Facteur<br>Sf = 1 | P1                               | $n_2$   | $i_s$                              | $i_t$                                     | $\eta$                            | $M_2$                                     | $F_{Q1}$                              | $F_{Q10}$                             | Tip<br>Type   |     |     | kg         |
|---|----------------------------------|---|------------------------------------|---|-----------------------------------|---|---------------------------------------|---------------------------------------|---------------|-----|-----|------------|
|   | GÜÇ                              | Çıkış Devri                                   | Sonsuz V. Tahvili                  | Toplam Tahvil                             | Verim                             | Çıkış Momenti                             | Rad. Yük                              | Rad. Yük                              |               |     |     |            |
|   | Power<br>Puissance<br>[kW]<br>Hp | Output Speeds<br>Vitesse de sortie<br>[r.p.m] | Worm Ratio<br>Rapport de réduction | Total Ratio<br>Rapport de réduction total | Efficiency<br>efficience<br>[ % ] | Output Torque<br>Couple de sortie<br>[Nm] | Over Loads<br>Charges radiales<br>[N] | Over Loads<br>Charges radiales<br>[N] |               |     |     |            |
| 1670-3540<br>Nm   | 5,50                             | 12  | 40                                 | 117,04                                    | 74                                | 3202                                      | 1550                                  | 18800                                 | İRSD<br>İRSDF | 83  | 172 | 97<br>107  |
|   | 5,50                             | 13  |                                    | 104,00                                    |                                   | 2846                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 5,50                             | 15  |                                    | 93,33                                     |                                   | 2554                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 7,50                             | 17  | 32                                 | 83,20                                     | 76                                | 3188                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 7,50                             | 19  |                                    | 74,67                                     |                                   | 2861                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 7,50                             | 21  |                                    | 67,31                                     |                                   | 2579                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 7,50                             | 23  |                                    | 59,83                                     |                                   | 2293                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 7,50                             | 25  |                                    | 55,73                                     |                                   | 2135                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 11,00                            | 28  |                                    | 50,29                                     |                                   | 2826                                      | 1550                                  | 18800                                 |               |     |     |            |
|   | 11,00                            | 31  | 45,84                              | 2576                                      | 1550                              | 18800                                     |                                       |                                       |               |     |     |            |
|   | 11,00                            | 33  | 41,85                              | 2352                                      | 1550                              | 18800                                     |                                       |                                       |               |     |     |            |
|   | 11,00                            | 37  | 38,24                              | 2149                                      | 1550                              | 18800                                     |                                       |                                       |               |     |     |            |
|   | 11,00                            | 41  | 33,94                              | 1907                                      | 1550                              | 18800                                     |                                       |                                       |               |     |     |            |
| 3400-6000<br>Nm   | 2,56                             | 5,4   | 54                                 | 261,00                                    | 73                                | 3274                                      | 2120                                  | 22000                                 | İRSD<br>İRSDF | 161 | 174 | 160<br>170 |
|   | 2,97                             | 6,0   |                                    | 235,22                                    |                                   | 3430                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 3,17                             | 6,6   |                                    | 213,00                                    |                                   | 3317                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 3,35                             | 7,2   |                                    | 193,64                                    |                                   | 3186                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 6,25                             | 6,9   | 87                                 | 203,14                                    | 63                                | 5380                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 6,81                             | 7,7   |                                    | 180,78                                    |                                   | 5213                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 7,35                             | 8,6   |                                    | 162,00                                    |                                   | 5045                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 7,82                             | 10  |                                    | 146,00                                    |                                   | 4834                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 8,37                             | 11  |                                    | 132,20                                    |                                   | 4687                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 8,88                             | 12  |                                    | 120,19                                    |                                   | 4518                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 8,33                             | 11  | 42                                 | 126,00                                    | 74                                | 5222                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 8,92                             | 12  |                                    | 113,55                                    |                                   | 5039                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 9,09                             | 14  |                                    | 102,82                                    |                                   | 4652                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 10,00                            | 15  |                                    | 93,48                                     |                                   | 4652                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 10,56                            | 16  |                                    | 85,27                                     |                                   | 4481                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 12,26                            | 18  |                                    | 78,00                                     |                                   | 4756                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 11,67                            | 20  |                                    | 71,51                                     |                                   | 4153                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 12,20                            | 21  |                                    | 65,69                                     |                                   | 3988                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 14,33                            | 23  |                                    | 60,90                                     |                                   | 4518                                      | 2120                                  | 22000                                 |               |     |     |            |
|   | 15,01                            | 25  |                                    | 55,71                                     |                                   | 4330                                      | 2120                                  | 22000                                 |               |     |     |            |
| 15,74   | 27                               | 30  | 51,08                              | 77  | 4162                              | 2120                                      | 22000                                 |                                       |               |     |     |            |
| 16,37   | 30                               |   | 46,92                              |   | 3976                              | 2120                                      | 22000                                 |                                       |               |     |     |            |
| 18,77   | 42                               |   | 33,65                              |   | 3270                              | 2120                                      | 22000                                 |                                       |               |     |     |            |