

### 3.5 Moc termiczna

Poniższa tabela przedstawia wartości mocy termicznej  $P_{10}$  (kW) dla każdej wielkości reduktora w zależności od prędkości obrotowej na jego wejściu.

### 3.5 Thermal power

The following table shows the values of thermal power  $P_{10}$  (kW) for each gearbox size on the basis of rotation speed at gearbox input.

### 3.5 Термическая мощность

В таблице рядом указаны значения термической мощности  $P_{10}$  (kW) для каждого типоразмера редуктора в зависимости от скорости вращения на его входе.

Tabela 2/Tab. 2/Таблица 2

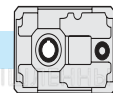
| T      | P <sub>10</sub> [kW]- Moc termiczna / Thermal power / Термическая мощность |      |
|--------|--|------|
|        | n <sub>1</sub> [min <sup>-1</sup> ]  |      |
|        | 1400   | 2800 |
| ZA71A  | 6.3  | 5.3  |
| ZA90A  | 9.5  | 8.1  |
| ZA112A | 14.3   | 12.2 |
| ZA140A | 21.6   | 18.3 |
| ZA180A | 34.8   | 29.6 |
| ZA225A | 56.6   | 48.1 |
| ZA80B  | 7.0  | 6.0  |
| ZA100B | 10.7   | 9.1  |
| ZA125B | 16.1   | 13.7 |
| ZA160B | 25.7   | 21.8 |
| ZA180B | 32.0   | 27.2 |
| ZA200B | 41.9   | 35.6 |
| ZA80C  | 5.0  | 4.3  |
| ZA100C | 7.6  | 6.5  |
| ZA125C | 11.5   | 9.8  |
| ZA160C | 18.3   | 15.6 |
| ZA180C | 32.0   | 27.2 |
| ZA200C | 29.9   | 25.4 |

### 3.6 Dane techniczne

### 3.6 Technical data

### 3.6 Технические параметры

| Z    | n <sub>1</sub> = 1400 |      |                    | ZA                 |       |
|------|-----------------------|------|--------------------|--------------------|-------|
|      | in                    | ir   | n <sub>2</sub> rpm | T <sub>2M</sub> Nm | P kW  |
| 71A  | 5                     | 5.09 | 275                | 270                | 8.0   |
|      | 6.3                   | 6.10 | 230                | 210                | 5.2   |
|      | 8                     | 7.88 | 177                | 180                | 3.5   |
| 90A  | 5                     | 5.09 | 275                | 590                | 17.5  |
|      | 6.3                   | 6.10 | 230                | 480                | 11.9  |
|      | 8                     | 7.88 | 177                | 360                | 6.9   |
| 112A | 5                     | 5.09 | 275                | 1200               | 35.6  |
|      | 6.3                   | 6.10 | 230                | 1150               | 28.5  |
|      | 8                     | 7.88 | 177                | 780                | 14.9  |
| 140A | 5                     | 5.09 | 275                | 2350               | 69.8  |
|      | 6.3                   | 6.10 | 230                | 2150               | 53.3  |
|      | 8                     | 7.88 | 177                | 2100               | 40.2  |
| 180A | 5                     | 5.09 | 275                | 4800               | 142.5 |
| 225A | 5                     | 4.82 | 291                | 8600               | 270   |



| Z            | n <sub>1</sub> = 1400 |        |                       | ZF                   |                      |      |                               | ZA                    |         |
|--------------|-----------------------|--------|-----------------------|----------------------|----------------------|------|-------------------------------|-----------------------|---------|
|              | in                    | ir     | n <sub>2</sub><br>rpm | T <sub>2</sub><br>Nm | P <sub>1</sub><br>kW | FS'  | IEC                           | T <sub>2M</sub><br>Nm | P<br>kW |
| <b>80B</b>   | 10                    | 10.20  | 137                   | 119                  | 1.8                  | 4.3  | 71<br>80<br>90                | 510                   | 7.7     |
|              | 12.5                  | 12.98  | 108                   | 151                  | 1.8                  | 3.8  |                               | 570                   | 6.8     |
|              | 16                    | 15.56  | 90                    | 181                  | 1.8                  | 3.5  |                               | 630                   | 6.3     |
|              | 20                    | 20.36  | 69                    | 238                  | 1.8                  | 2.9  |                               | 700                   | 5.3     |
|              | 25                    | 24.40  | 57                    | 285                  | 1.8                  | 2.5  |                               | 700                   | 4.4     |
|              | 31.5                  | 31.05  | 45                    | 362                  | 1.8                  | 1.7  |                               | 630                   | 3.1     |
|              | 40                    | 37.21  | 38                    | 434                  | 1.8                  | 1.3  |                               | 560                   | 2.3     |
|              | 50                    | 48.12  | 29                    | 468                  | 1.5                  | 1.1  |                               | 520                   | 1.7     |
| 63           | 62.23                 | 22     | 444                   | 1.1                  | 1.2                  | 520  | 1.3                           |                       |         |
| <b>80C</b>   | 50                    | 52.51  | 27                    | 600                  | 1.8                  | 1.1  | 63<br>71<br>80<br>90          | 660                   | 2.0     |
|              | 63                    | 62.91  | 22                    | 599                  | 1.5                  | 1.1  |                               | 680                   | 1.7     |
|              | 80                    | 80.08  | 17                    | 559                  | 1.1                  | 1.3  |                               | 710                   | 1.4     |
|              | 100                   | 105.52 | 13                    | 736                  | 1.1                  | 1.0  |                               | 740                   | 1.1     |
|              | 125                   | 126.43 | 11                    | 722                  | 0.9                  | 1.0  |                               | 740                   | 0.90    |
|              | 160                   | 160.91 | 9                     | 561                  | 0.55                 | 1.2  |                               | 680                   | 0.70    |
|              | 200                   | 208.11 | 7                     | 488                  | 0.37                 | 1.4  |                               | 700                   | 0.50    |
|              | 250                   | 249.36 | 6                     | 585                  | 0.37                 | 1.2  |                               | 720                   | 0.50    |
| <b>100B</b>  | 10                    | 10.20  | 137                   | 264                  | 4                    | 4.0  | 71<br>80<br>90<br>100<br>112  | 1050                  | 15.9    |
|              | 12.5                  | 12.98  | 108                   | 337                  | 4                    | 3.4  |                               | 1150                  | 13.7    |
|              | 16                    | 15.56  | 90                    | 403                  | 4                    | 3.2  |                               | 1280                  | 12.7    |
|              | 20                    | 20.36  | 69                    | 528                  | 4                    | 2.7  |                               | 1420                  | 10.8    |
|              | 25                    | 24.40  | 57                    | 632                  | 4                    | 2.2  |                               | 1420                  | 9.0     |
|              | 31.5                  | 31.05  | 45                    | 805                  | 4                    | 1.6  |                               | 1290                  | 6.4     |
|              | 40                    | 37.21  | 38                    | 965                  | 4                    | 1.3  |                               | 1220                  | 5.1     |
|              | 50                    | 48.12  | 29                    | 936                  | 3                    | 1.1  |                               | 1060                  | 3.4     |
| 63           | 62.23                 | 22     | 887                   | 2.2                  | 1.2                  | 1060 | 2.6                           |                       |         |
| <b>100C</b>  | 50                    | 51.93  | 27                    | 593                  | 1.8                  | 2.2  | 71<br>80<br>90                | 1300                  | 4.0     |
|              | 63                    | 62.22  | 23                    | 710                  | 1.8                  | 1.9  |                               | 1350                  | 3.4     |
|              | 80                    | 79.19  | 18                    | 904                  | 1.8                  | 1.6  |                               | 1410                  | 2.8     |
|              | 100                   | 103.67 | 14                    | 1184                 | 1.8                  | 1.2  |                               | 1470                  | 2.2     |
|              | 125                   | 124.22 | 11                    | 1418                 | 1.8                  | 1.0  |                               | 1480                  | 1.9     |
|              | 160                   | 158.10 | 9                     | 1103                 | 1.1                  | 1.2  |                               | 1360                  | 1.4     |
|              | 200                   | 204.46 | 7                     | 1167                 | 0.9                  | 1.2  |                               | 1400                  | 1.1     |
|              | 250                   | 244.99 | 6                     | 1399                 | 0.9                  | 1.0  |                               | 1440                  | 0.9     |
| <b>125 B</b> | 10                    | 10.20  | 137                   | 608                  | 9.2                  | 3.5  | 80<br>90<br>100<br>112<br>132 | 2100                  | 31.8    |
|              | 12.5                  | 12.98  | 108                   | 774                  | 9.2                  | 3.0  |                               | 2300                  | 27.3    |
|              | 16                    | 15.56  | 90                    | 927                  | 9.2                  | 2.7  |                               | 2500                  | 24.8    |
|              | 20                    | 20.36  | 69                    | 1214                 | 9.2                  | 2.3  |                               | 2850                  | 21.6    |
|              | 25                    | 24.40  | 57                    | 1455                 | 9.2                  | 2.0  |                               | 2850                  | 18.0    |
|              | 31.5                  | 31.05  | 45                    | 1851                 | 9.2                  | 1.4  |                               | 2550                  | 12.7    |
|              | 40                    | 37.21  | 38                    | 2218                 | 9.2                  | 1.1  |                               | 2350                  | 9.8     |
|              | 50                    | 48.12  | 29                    | 1715                 | 5.5                  | 1.3  |                               | 2250                  | 7.2     |
| 63           | 62.23                 | 22     | 2218                  | 5.5                  | 1.0                  | 2250 | 5.6                           |                       |         |
| <b>125C</b>  | 50                    | 51.93  | 27                    | 1318                 | 4                    | 2.0  | 71<br>80<br>90<br>100<br>112  | 2650                  | 8.0     |
|              | 63                    | 62.22  | 23                    | 1579                 | 4                    | 1.7  |                               | 2760                  | 7.0     |
|              | 80                    | 79.19  | 18                    | 2009                 | 4                    | 1.4  |                               | 2880                  | 5.7     |
|              | 100                   | 103.67 | 14                    | 2631                 | 4                    | 1.1  |                               | 3000                  | 4.6     |
|              | 125                   | 124.22 | 11                    | 2364                 | 3                    | 1.3  |                               | 3000                  | 3.8     |
|              | 160                   | 158.10 | 9                     | 2206                 | 2.2                  | 1.2  |                               | 2720                  | 2.7     |
|              | 200                   | 204.46 | 7                     | 2335                 | 1.8                  | 1.2  |                               | 2800                  | 2.2     |
|              | 250                   | 244.99 | 6                     | 2798                 | 1.8                  | 1.0  |                               | 2880                  | 1.9     |

| Z           | n <sub>1</sub> = 1400 |        |                       | ZF                   |                      |       |   | ZA                    |         |
|-------------|-----------------------|--------|-----------------------|----------------------|----------------------|-------|---|-----------------------|---------|
|             | in                    | ir     | n <sub>2</sub><br>rpm | T <sub>2</sub><br>Nm | P <sub>1</sub><br>kW | FS'   | IEC   | T <sub>2M</sub><br>Nm | P<br>kW |
| <b>160B</b> | 10                    | 10.20  | 137                   | 1454                 | 22                   | 2.8   | 90<br>100<br>112<br>132<br>160<br>180       | 4000                  | 60.5    |
|             | 12.5                  | 12.98  | 108                   | 1851                 | 22                   | 2.4   |   | 4500                  | 53.5    |
|             | 16                    | 15.56  | 90                    | 2218                 | 22                   | 2.2   |   | 4900                  | 48.6    |
|             | 20                    | 20.36  | 69                    | 2903                 | 22                   | 1.9   |   | 5500                  | 41.7    |
|             | 25                    | 24.40  | 57                    | 3479                 | 22                   | 1.6   |   | 5500                  | 34.8    |
|             | 31.5                  | 31.05  | 45                    | 4427                 | 22                   | 1.2   |   | 5200                  | 25.8    |
|             | 40                    | 37.21  | 38                    | 4461                 | 18.5                 | 1.1   |   | 4700                  | 19.5    |
|             | 50                    | 48.12  | 29                    | 3430                 | 11                   | 1.3   |   | 4300                  | 13.8    |
| 63          | 62.23                 | 22     | 3710                  | 9.2                  | 1.2                  | 4300  | 10.7  |                       |         |
| <b>160C</b> | 50                    | 51.93  | 27                    | 3031                 | 9.2                  | 1.7   | 80<br>90<br>100<br>112<br>132               | 5130                  | 15.6    |
|             | 63                    | 62.22  | 23                    | 3631                 | 9.2                  | 1.5   |   | 5350                  | 13.6    |
|             | 80                    | 79.19  | 18                    | 4622                 | 9.2                  | 1.2   |   | 5570                  | 11.1    |
|             | 100                   | 103.67 | 14                    | 4933                 | 7.5                  | 1.2   |   | 5800                  | 8.8     |
|             | 125                   | 124.22 | 11                    | 4334                 | 5.5                  | 1.3   |   | 5800                  | 7.4     |
|             | 160                   | 158.10 | 9                     | 4012                 | 4                    | 1.4   |   | 5470                  | 5.5     |
|             | 200                   | 204.46 | 7                     | 5188                 | 4                    | 1.1   |   | 5600                  | 4.3     |
|             | 250                   | 244.99 | 6                     | 4663                 | 3                    | 1.2   |   | 5760                  | 3.7     |
| <b>180B</b> | 8                     | 8.10   | 173                   | 1155                 | 22                   | 4.4   | 80<br>90<br>100<br>112<br>132<br>160<br>180 | 5100                  | 97.2    |
|             | 10                    | 10.38  | 135                   | 1480                 | 22                   | 3.8   |   | 5650                  | 84.0    |
|             | 12.5                  | 12.54  | 112                   | 1787                 | 22                   | 3.5   |   | 6200                  | 76.3    |
|             | 16                    | 16.17  | 87                    | 2305                 | 22                   | 2.9   |   | 6750                  | 64.4    |
|             | 20                    | 20.73  | 68                    | 2955                 | 22                   | 2.5   |   | 7300                  | 54.4    |
|             | 25                    | 25.03  | 56                    | 3569                 | 22                   | 2.1   |   | 7450                  | 45.9    |
|             | 31.5                  | 31.05  | 45                    | 4427                 | 22                   | 1.7   |   | 7550                  | 37.5    |
|             | 40                    | 35.07  | 40                    | 5000                 | 22                   | 1.5   |   | 7550                  | 33.2    |
| <b>180C</b> | 50                    | 52.85  | 26                    | 3085                 | 9.2                  | 2.4   | 80<br>90<br>100<br>112<br>132               | 7530                  | 22.5    |
|             | 63                    | 63.33  | 22                    | 3696                 | 9.2                  | 2.0   |   | 7560                  | 18.8    |
|             | 80                    | 76.48  | 18                    | 4464                 | 9.2                  | 1.7   |   | 7700                  | 15.9    |
|             | 100                   | 105.52 | 13                    | 6159                 | 9.2                  | 1.2   |   | 7650                  | 11.4    |
|             | 125                   | 126.44 | 11                    | 7379                 | 9.2                  | 1.0   |   | 7680                  | 9.6     |
|             | 160                   | 152.68 | 9                     | 7265                 | 7.5                  | 1.1   |   | 7830                  | 8.1     |
|             | 200                   | 197.46 | 7                     | 6890                 | 5.5                  | 1.1   |   | 7870                  | 6.3     |
|             | 250                   | 244.99 | 6                     | 6217                 | 4                    | 1.3   |   | 7960                  | 5.1     |
| <b>200B</b> | 8                     | 8.33   | 168                   | 1619                 | 30                   | 4.6   | 132<br>160<br>180<br>200                    | 7500                  | 139     |
|             | 10                    | 10.00  | 140                   | 1945                 | 30                   | 4.2   |   | 8200                  | 127     |
|             | 12.5                  | 12.29  | 114                   | 2389                 | 30                   | 3.8   |   | 9000                  | 113     |
|             | 16                    | 16.63  | 84                    | 3233                 | 30                   | 3.0   |   | 9800                  | 90.9    |
|             | 20                    | 19.97  | 70                    | 3883                 | 30                   | 2.7   |   | 10600                 | 81.9    |
|             | 25                    | 24.53  | 57                    | 4769                 | 30                   | 2.3   |   | 11000                 | 69.2    |
| 31.5        | 30.04                 | 47     | 5839                  | 30                   | 1.8                  | 10700 | 55.0  |                       |         |
| <b>200C</b> | 40                    | 42.41  | 33                    | 5919                 | 22                   | 1.8   | 100<br>112<br>132<br>160<br>180             | 10900                 | 40.5    |
|             | 50                    | 50.93  | 27                    | 7108                 | 22                   | 1.5   |   | 11000                 | 34.1    |
|             | 63                    | 62.55  | 22                    | 8730                 | 22                   | 1.3   |   | 11350                 | 28.6    |
|             | 80                    | 76.59  | 18                    | 10690                | 22                   | 1.0   |   | 11050                 | 22.7    |
|             | 100                   | 101.68 | 14                    | 9675                 | 15                   | 1.2   |   | 11200                 | 17.4    |
|             | 125                   | 124.87 | 11                    | 8714                 | 11                   | 1.3   |   | 11500                 | 14.5    |
| 160         | 152.91                | 9      | 10671                 | 11                   | 1.0                  | 11200 | 11.6  |                       |         |