

# Шарикоподшипники с глубоким желобом

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Пенза (8412)22-31-16  
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Псков (8112)59-10-37  
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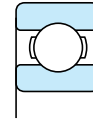
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Томск (3822)98-41-53  
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Тюмень (3452)66-21-18  
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Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
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Ярославль (4852)69-52-93

# Deep groove ball bearings

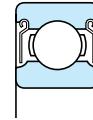
Deep groove ball bearings are available in a variety of sizes, and are the most popular of all rolling bearings. This type of bearing supports radial load and a certain degree of axial load in both directions simultaneously.

- Shielded / sealed type
  - Simplifies sealing structure of applications.
  - Greasing is not necessary because bearings are pre-lubricated.
  - Table 1 on the next page lists major shielded and sealed bearing types and compares their performance.
- With locating snap ring
  - Bearings with a locating snap ring can be fit to the housing easily, as the locating snap ring facilitates axial positioning.
- Extra-small ball bearings and miniature ball bearings
  - The open type is widely used. Also available are the shielded / sealed type and the flanged type; the latter is easily positioned in the axial direction.

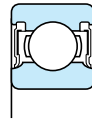
## Single-row deep groove ball bearings



Open type

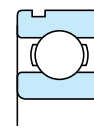


Shielded type

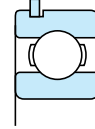


Sealed type

Bore diameter **10 – 200 mm**



With snap ring groove



With locating snap ring

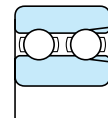
Bore diameter **10 – 130 mm**

## Extra-small ball bearings and miniature ball bearings



Bore diameter **3 – 9 mm**

## Double-row deep groove ball bearings

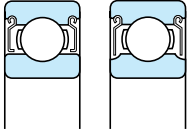
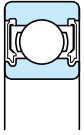
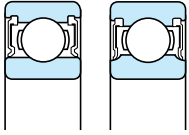
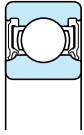
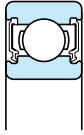


(with filling slot)

Bore diameter **15 – 75 mm**

# Deep groove ball bearings

**Table 1 Comparison of shielded and sealed bearing performance**

| Type<br><br><br><br>Character-<br>istics | Shielded                                                                                                   | Sealed                                                                                   |                                                                                                            |                                                                                            |                                                                                            |
|------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                          | Non-contact type                                                                                           | Non-contact type                                                                         | Contact type                                                                                               |                                                                                            | Extremely light contact type                                                               |
|                                          | ZZ                                                                                                         | 2RU                                                                                      | 2RS                                                                                                        | 2RK                                                                                        | 2RD                                                                                        |
|                                          | <br>(a) <sup>1)</sup> (b) | <br>(c) | <br>(d) <sup>2)</sup> (e) | <br>(f) | <br>(g) |
| Friction torque                          | Small                                                                                                      | Small                                                                                    | Large                                                                                                      | Large                                                                                      | Small                                                                                      |
| High speed performance                   | Good                                                                                                       | Good                                                                                     | Limited because of contact                                                                                 |                                                                                            | Good                                                                                       |
| Grease sealing property                  | Good                                                                                                       | Better than ZZ type                                                                      | Better than 2RU type for low-speed applications                                                            | Excellent                                                                                  | Excellent                                                                                  |
| Dirt resistance                          | Good                                                                                                       | Better than ZZ type                                                                      | Better than 2RU type                                                                                       | Excellent                                                                                  | Excellent                                                                                  |
| Water resistance                         | Economical                                                                                                 | Better than ZZ type but inferior to 2RS, 2RK and 2RD types                               | Good                                                                                                       | Excellent                                                                                  | Better than ZZ and 2RU types                                                               |
| Operating temperature <sup>3)</sup>      | -30 to 110°C                                                                                               |                                                                                          | -30 to 100°C                                                                                               |                                                                                            | -30 to 110°C                                                                               |

Notes)

- 1) Illustration (a) of the ZZ type shows the relatively small size bearing.
- 2) Illustration (d) of the 2RS type shows the relatively small size bearing.
- 3) The operating temperature range listed is for the standard type. It can be widened by using a different type of grease or sealing material. Consult Koyo for details.

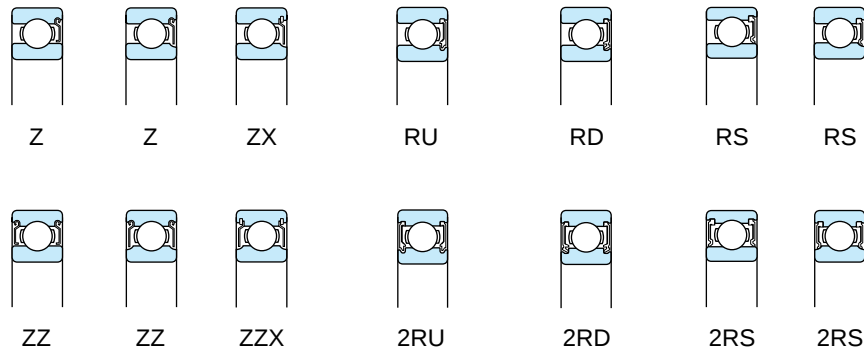
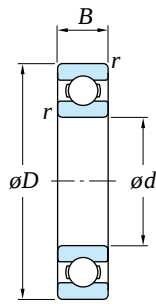
## Handling instructions

- 1) The shielded / sealed type deep groove ball bearing and the deep groove ball bearing with a locating snap ring are designed for use with the inner ring rotating. Consult koyo on use with the outer ring rotating.
- 2) When the axial load is large, make the shaft shoulder and housing shoulder larger than usual. (Referring to the specification table, make the mounting dimension  $d_a$  larger and make  $D_a$  smaller.)

|                                              |                                                                                                                                                                                                                                                                                                                                              |                               |               |                          |                       |      |      |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|--------------------------|-----------------------|------|------|
| Boundary dimensions                          | The dimensions of standard series are as specified in JIS B 1512.<br>For extra-small and miniature ball bearings, special series (ML) are specified together with those described above.                                                                                                                                                     |                               |               |                          |                       |      |      |
| Tolerances                                   | As specified in JIS B 1514.                                                                                                                                                                                                                                                                                                                  |                               |               |                          |                       |      |      |
| Radial internal clearance                    | ■ Deep groove ball bearings (except extra-small ball bearings and miniature ball bearings) ..... as specified in JIS B 1520 (refer to Table 2-1 on p. A11.)<br>■ Extra-small ball bearings and miniature ball bearings ..... (refer to Table 2-2 on p. A11.)<br>■ Deep groove ball bearings for motors ..... (refer to Table 2-6 on p. A14.) |                               |               |                          |                       |      |      |
| Standard cages                               | • Pressed steel cage (supplementary code : //)<br>• Copper alloy machined cage (supplementary code : FY)<br><br>Remark :<br>For certain applications, stainless steel sheet pressed cages (YS) and polyamide molded cages (MG) may also be used.                                                                                             | Application of standard cages |               |                          |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | Bearing series                | Pressed cage  | Machined cage            |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 68                            | 683 – 689     | –                        |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 69                            | 693 – 699     | –                        |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 60                            | 603 – 609     | –                        |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 62                            | 623 – 629     | –                        |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 63                            | 633 – 639     | –                        |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 68                            | 6800 – 6838   | 6840 – 68/600            |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 69                            | 6900 – 6918   | 6920 – 6980              |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 160                           | 16001 – 16028 | 16030 – 16072            |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 60                            | 6000 – 6034   | 6036 – 6084              |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 62                            | 6200 – 6230   | 6232 – 6248              |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 63                            | 6300 – 6328   | 6330 – 6340              |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 64                            | 6403 – 6418   | –                        |                       |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 42                            | 4200 – 4215   | –                        |                       |      |      |
| 43                                           | 4302 – 4315                                                                                                                                                                                                                                                                                                                                  | –                             |               |                          |                       |      |      |
| Allowable misalignment                       | 0.002 3 – 0.003 4 rad (8' – 12')                                                                                                                                                                                                                                                                                                             |                               |               |                          |                       |      |      |
| Equivalent radial load (Single / double-row) | Dynamic equivalent radial load<br>$P_r = XF_r + YF_a$<br>[refer to the table on the right for values X and Y.]<br><br>Static equivalent radial load<br>$P_{0r} = 0.6F_r + 0.5F_a$<br>[when the value of $P_{0r} < F_r$ , $P_{0r} = F_r$ ]                                                                                                    | $\frac{F_a}{C_{0r}}$          | $e$           | $\frac{F_a}{F_r} \leq e$ | $\frac{F_a}{F_r} > e$ |      |      |
|                                              |                                                                                                                                                                                                                                                                                                                                              |                               |               | X                        | Y                     | X    | Y    |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.014                         | 0.19          | 1                        | 0                     | 0.56 | 2.30 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.028                         | 0.22          |                          |                       |      | 1.99 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.056                         | 0.26          |                          |                       |      | 1.71 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.084                         | 0.28          |                          |                       |      | 1.55 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.11                          | 0.30          |                          |                       |      | 1.45 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.17                          | 0.34          |                          |                       |      | 1.31 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.28                          | 0.38          |                          |                       |      | 1.15 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.42                          | 0.42          |                          |                       |      | 1.04 |
|                                              |                                                                                                                                                                                                                                                                                                                                              | 0.56                          | 0.44          |                          |                       |      | 1.00 |

# Single-row deep groove ball bearings

**d 10 – 20 mm**



Open

Shielded

Non-contact  
sealed

Extremely light  
contact sealed

Contact sealed

| Boundary dimensions<br>(mm) |    |    |           | Basic load ratings<br>(kN) |                 | Limiting speeds (min <sup>-1</sup> ) |           |           |           | Bearing No.  |                |               |            |            | (Refer.)<br>Mass<br>Open type<br>(kg) |
|-----------------------------|----|----|-----------|----------------------------|-----------------|--------------------------------------|-----------|-----------|-----------|--------------|----------------|---------------|------------|------------|---------------------------------------|
| d                           | D  | B  | r<br>min. | C <sub>r</sub>             | C <sub>0r</sub> | Grease lub.                          |           | Oil lub.  |           | Open         | Shielded<br>ZZ | Sealed<br>2RU | 2RD        | 2RS        |                                       |
|                             |    |    |           |                            |                 | Open<br>Z, ZZ<br>RU, 2RU             | (RD, 2RD) | (RS, 2RS) | Open<br>Z |              |                |               |            |            |                                       |
| 10                          | 19 | 5  | 0.3       | 1.70                       | 0.84            | 37 000                               | –         | –         | 43 000    | <b>6800</b>  | <b>ZZ</b>      | –             | –          | –          | 0.005                                 |
|                             | 22 | 6  | 0.3       | 2.70                       | 1.25            | 34 000                               | –         | –         | 41 000    | <b>6900</b>  | <b>ZZ</b>      | –             | –          | –          | 0.010                                 |
|                             | 26 | 8  | 0.3       | 4.55                       | 1.95            | 31 000                               | –         | 19 000    | 36 000    | <b>6000</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.019                                 |
|                             | 30 | 9  | 0.6       | 5.10                       | 2.40            | 24 000                               | –         | 16 000    | 29 000    | <b>6200</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.032                                 |
|                             | 35 | 11 | 0.6       | 8.10                       | 3.45            | 22 000                               | –         | 16 000    | 27 000    | <b>6300</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.053                                 |
|                             |    |    |           |                            |                 |                                      |           |           |           |              |                |               |            |            |                                       |
| 12                          | 21 | 5  | 0.3       | 1.90                       | 1.05            | 33 000                               | –         | –         | 39 000    | <b>6801</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.006                                 |
|                             | 24 | 6  | 0.3       | 2.90                       | 1.45            | 31 000                               | –         | –         | 36 000    | <b>6901</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.011                                 |
|                             | 28 | 7  | 0.3       | 5.10                       | 2.40            | 27 000                               | –         | –         | 32 000    | <b>16001</b> | –              | –             | –          | –          | 0.024                                 |
|                             | 28 | 8  | 0.3       | 5.10                       | 2.40            | 27 000                               | –         | 17 000    | 32 000    | <b>6001</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.022                                 |
|                             | 32 | 10 | 0.6       | 6.80                       | 3.05            | 22 000                               | 20 000    | 15 000    | 27 000    | <b>6201</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.037                                 |
|                             | 37 | 12 | 1         | 9.70                       | 4.20            | 20 000                               | 18 000    | 15 000    | 25 000    | <b>6301</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.060                                 |
| 15                          | 24 | 5  | 0.3       | 2.10                       | 1.25            | 28 000                               | –         | –         | 33 000    | <b>6802</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.007                                 |
|                             | 28 | 7  | 0.3       | 4.30                       | 2.25            | 26 000                               | –         | –         | 30 000    | <b>6902</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.017                                 |
|                             | 32 | 8  | 0.3       | 5.60                       | 2.85            | 23 000                               | –         | –         | 28 000    | <b>16002</b> | –              | –             | –          | –          | 0.025                                 |
|                             | 32 | 9  | 0.3       | 5.60                       | 2.85            | 23 000                               | –         | 14 000    | 27 000    | <b>6002</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.030                                 |
|                             | 35 | 11 | 0.6       | 7.65                       | 3.75            | 20 000                               | 18 000    | 13 000    | 24 000    | <b>6202</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.045                                 |
|                             | 42 | 13 | 1         | 11.4                       | 5.45            | 17 000                               | 15 000    | 12 000    | 20 000    | <b>6302</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.082                                 |
| 17                          | 26 | 5  | 0.3       | 2.60                       | 1.55            | 26 000                               | –         | –         | 30 000    | <b>6803</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.008                                 |
|                             | 30 | 7  | 0.3       | 4.60                       | 2.55            | 23 000                               | –         | –         | 28 000    | <b>6903</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.018                                 |
|                             | 35 | 8  | 0.3       | 6.00                       | 3.25            | 21 000                               | –         | –         | 25 000    | <b>16003</b> | –              | –             | –          | –          | 0.032                                 |
|                             | 35 | 10 | 0.3       | 6.00                       | 3.25            | 21 000                               | –         | 12 000    | 25 000    | <b>6003</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.039                                 |
|                             | 40 | 12 | 0.6       | 9.55                       | 4.80            | 17 000                               | 15 000    | 12 000    | 21 000    | <b>6203</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.065                                 |
|                             | 47 | 14 | 1         | 13.6                       | 6.65            | 15 000                               | 14 000    | 10 000    | 18 000    | <b>6303</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.115                                 |
| 20                          | 62 | 17 | 1.1       | 20.7                       | 9.85            | 13 000                               | –         | –         | 15 000    | <b>6403</b>  | –              | –             | –          | –          | 0.270                                 |
|                             | 32 | 7  | 0.3       | 4.00                       | 2.45            | 21 000                               | –         | –         | 25 000    | <b>6804</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.018                                 |
|                             | 37 | 9  | 0.3       | 6.35                       | 3.70            | 19 000                               | –         | –         | 23 000    | <b>6904</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.036                                 |
|                             | 42 | 8  | 0.3       | 7.95                       | 4.50            | 17 000                               | –         | –         | 21 000    | <b>16004</b> | –              | –             | –          | –          | 0.050                                 |
|                             | 42 | 12 | 0.6       | 9.40                       | 5.05            | 17 000                               | –         | 10 000    | 21 000    | <b>6004</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.069                                 |
|                             | 47 | 14 | 1         | 12.8                       | 6.65            | 15 000                               | 14 000    | 9 700     | 17 000    | <b>6204</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.106                                 |
|                             | 52 | 15 | 1.1       | 15.9                       | 7.85            | 14 000                               | 13 000    | 9 500     | 17 000    | <b>6304</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.144                                 |
|                             | 72 | 19 | 1.1       | 31.0                       | 15.2            | 11 000                               | –         | –         | 13 000    | <b>6404</b>  | –              | –             | –          | –          | 0.400                                 |

Remark) Standard cage types used for the above bearings are described earlier in this section.

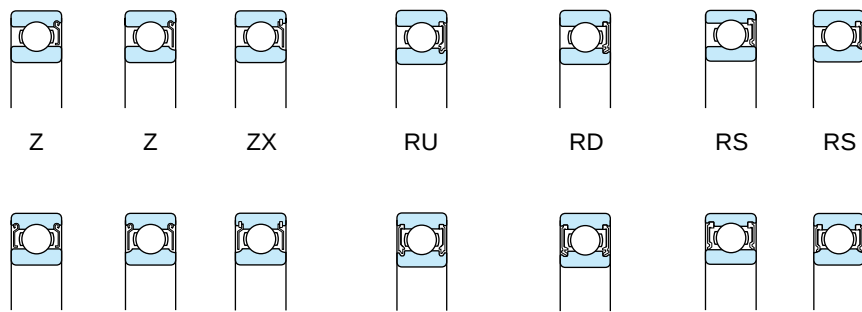
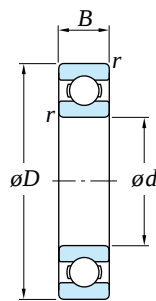
# **d 22 – 45 mm**

| Boundary dimensions<br>(mm) |          |          |                  | Basic load ratings<br>(kN) |                       | Limiting speeds (min <sup>-1</sup> )                                                   |           |           |                                                                         | Bearing No.  |                |               |            |            | (Refer.)<br>Mass<br>Open type<br>(kg) |
|-----------------------------|----------|----------|------------------|----------------------------|-----------------------|----------------------------------------------------------------------------------------|-----------|-----------|-------------------------------------------------------------------------|--------------|----------------|---------------|------------|------------|---------------------------------------|
| <i>d</i>                    | <i>D</i> | <i>B</i> | <i>r</i><br>min. | <i>C<sub>r</sub></i>       | <i>C<sub>0r</sub></i> | Grease lub.                                                                            |           | Oil lub.  |                                                                         | Open         | Shielded<br>ZZ | Sealed<br>2RU | 2RD        | 2RS        |                                       |
|                             |          |          |                  |                            |                       | $\left[ \begin{smallmatrix} \text{Open} \\ Z, ZZ \\ RU, 2RU \end{smallmatrix} \right]$ | (RD, 2RD) | (RS, 2RS) | $\left[ \begin{smallmatrix} \text{Open} \\ Z \end{smallmatrix} \right]$ |              |                |               |            |            |                                       |
| <b>22</b>                   | 44       | 12       | 0.6              | 9.40                       | 5.15                  | 17 000                                                                                 | –         | 9 900     | 20 000                                                                  | <b>60/22</b> | –              | –             | –          | <b>2RS</b> | 0.073                                 |
|                             | 50       | 14       | 1                | 12.8                       | 6.65                  | 15 000                                                                                 | –         | 9 700     | 17 000                                                                  | <b>62/22</b> | –              | –             | –          | <b>2RS</b> | 0.118                                 |
|                             | 56       | 16       | 1.1              | 18.5                       | 9.40                  | 13 000                                                                                 | –         | 8 600     | 15 000                                                                  | <b>63/22</b> | –              | –             | –          | <b>2RS</b> | 0.201                                 |
| <b>25</b>                   | 37       | 7        | 0.3              | 4.30                       | 2.95                  | 18 000                                                                                 | –         | –         | 21 000                                                                  | <b>6805</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.022                                 |
|                             | 42       | 9        | 0.3              | 7.00                       | 4.55                  | 16 000                                                                                 | –         | –         | 19 000                                                                  | <b>6905</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.041                                 |
|                             | 47       | 8        | 0.3              | 8.85                       | 5.60                  | 15 000                                                                                 | –         | –         | 18 000                                                                  | <b>16005</b> | –              | –             | –          | –          | 0.060                                 |
|                             | 47       | 12       | 0.6              | 10.1                       | 5.85                  | 15 000                                                                                 | –         | 9 000     | 18 000                                                                  | <b>6005</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.080                                 |
|                             | 52       | 15       | 1                | 14.0                       | 7.85                  | 13 000                                                                                 | 12 000    | 8 400     | 15 000                                                                  | <b>6205</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.128                                 |
|                             | 62       | 17       | 1.1              | 20.6                       | 11.3                  | 11 000                                                                                 | 9 900     | 7 500     | 13 000                                                                  | <b>6305</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.232                                 |
|                             | 80       | 21       | 1.5              | 36.1                       | 19.4                  | 9 100                                                                                  | –         | –         | 11 000                                                                  | <b>6405</b>  | –              | –             | –          | –          | 0.530                                 |
| <b>28</b>                   | 52       | 12       | 0.6              | 12.4                       | 7.40                  | 14 000                                                                                 | –         | –         | 16 000                                                                  | <b>60/28</b> | <b>ZZ</b>      | –             | –          | –          | 0.097                                 |
|                             | 58       | 16       | 1                | 17.9                       | 9.75                  | 12 000                                                                                 | –         | 7 600     | 14 000                                                                  | <b>62/28</b> | <b>ZZ</b>      | –             | –          | <b>2RS</b> | 0.173                                 |
|                             | 68       | 18       | 1.1              | 23.5                       | 13.1                  | 10 000                                                                                 | –         | 6 900     | 12 000                                                                  | <b>63/28</b> | <b>ZZ</b>      | –             | –          | <b>2RS</b> | 0.328                                 |
| <b>30</b>                   | 42       | 7        | 0.3              | 4.55                       | 3.40                  | 15 000                                                                                 | –         | –         | 18 000                                                                  | <b>6806</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.026                                 |
|                             | 47       | 9        | 0.3              | 7.25                       | 5.00                  | 14 000                                                                                 | –         | –         | 17 000                                                                  | <b>6906</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.045                                 |
|                             | 55       | 9        | 0.3              | 11.2                       | 7.35                  | 13 000                                                                                 | –         | –         | 15 000                                                                  | <b>16006</b> | –              | –             | –          | –          | 0.085                                 |
|                             | 55       | 13       | 1                | 13.2                       | 8.25                  | 13 000                                                                                 | –         | 7 500     | 15 000                                                                  | <b>6006</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.116                                 |
|                             | 62       | 16       | 1                | 19.5                       | 11.3                  | 11 000                                                                                 | 9 900     | 7 000     | 13 000                                                                  | <b>6206</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.199                                 |
|                             | 72       | 19       | 1.1              | 26.7                       | 15.0                  | 9 600                                                                                  | 8 600     | 6 400     | 12 000                                                                  | <b>6306</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.346                                 |
|                             | 90       | 23       | 1.5              | 43.4                       | 23.9                  | 8 100                                                                                  | –         | –         | 9 700                                                                   | <b>6406</b>  | –              | –             | –          | –          | 0.735                                 |
| <b>32</b>                   | 58       | 13       | 1                | 15.0                       | 9.15                  | 12 000                                                                                 | –         | 7 200     | 14 000                                                                  | <b>60/32</b> | <b>ZZ</b>      | –             | –          | <b>2RS</b> | 0.127                                 |
|                             | 65       | 17       | 1                | 23.5                       | 13.1                  | 10 000                                                                                 | –         | 6 900     | 12 000                                                                  | <b>62/32</b> | <b>ZZ</b>      | –             | –          | <b>2RS</b> | 0.228                                 |
|                             | 75       | 20       | 1.1              | 30.1                       | 16.2                  | 9 300                                                                                  | –         | 6 400     | 11 000                                                                  | <b>63/32</b> | <b>ZZ</b>      | –             | –          | <b>2RS</b> | 0.437                                 |
| <b>35</b>                   | 47       | 7        | 0.3              | 4.75                       | 3.85                  | 13 000                                                                                 | –         | –         | 16 000                                                                  | <b>6807</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.030                                 |
|                             | 55       | 10       | 0.6              | 10.9                       | 7.75                  | 12 000                                                                                 | –         | –         | 14 000                                                                  | <b>6907</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.073                                 |
|                             | 62       | 9        | 0.3              | 12.2                       | 8.85                  | 11 000                                                                                 | –         | –         | 13 000                                                                  | <b>16007</b> | –              | –             | –          | –          | 0.110                                 |
|                             | 62       | 14       | 1                | 15.9                       | 10.3                  | 11 000                                                                                 | –         | 6 500     | 13 000                                                                  | <b>6007</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.155                                 |
|                             | 72       | 17       | 1.1              | 25.7                       | 15.4                  | 9 200                                                                                  | 8 300     | 6 000     | 11 000                                                                  | <b>6207</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.288                                 |
|                             | 80       | 21       | 1.5              | 33.4                       | 19.3                  | 8 500                                                                                  | 7 700     | 5 700     | 10 000                                                                  | <b>6307</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.457                                 |
|                             | 100      | 25       | 1.5              | 55.0                       | 31.0                  | 7 200                                                                                  | –         | –         | 8 600                                                                   | <b>6407</b>  | –              | –             | –          | –          | 0.952                                 |
| <b>40</b>                   | 52       | 7        | 0.3              | 4.95                       | 4.20                  | 12 000                                                                                 | –         | –         | 14 000                                                                  | <b>6808</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.033                                 |
|                             | 62       | 12       | 0.6              | 13.7                       | 9.95                  | 11 000                                                                                 | –         | –         | 13 000                                                                  | <b>6908</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.112                                 |
|                             | 68       | 9        | 0.3              | 12.6                       | 9.65                  | 9 800                                                                                  | –         | –         | 12 000                                                                  | <b>16008</b> | –              | –             | –          | –          | 0.125                                 |
|                             | 68       | 15       | 1                | 16.7                       | 11.5                  | 10 000                                                                                 | –         | 5 800     | 12 000                                                                  | <b>6008</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.192                                 |
|                             | 80       | 18       | 1.1              | 29.1                       | 17.8                  | 8 300                                                                                  | 7 500     | 5 400     | 10 000                                                                  | <b>6208</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.366                                 |
|                             | 90       | 23       | 1.5              | 40.7                       | 24.0                  | 7 700                                                                                  | 6 900     | 5 100     | 9 200                                                                   | <b>6308</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.633                                 |
|                             | 110      | 27       | 2                | 63.7                       | 36.6                  | 6 600                                                                                  | –         | –         | 7 900                                                                   | <b>6408</b>  | –              | –             | –          | –          | 1.23                                  |
| <b>45</b>                   | 58       | 7        | 0.3              | 6.20                       | 5.40                  | 11 000                                                                                 | –         | –         | 13 000                                                                  | <b>6809</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.040                                 |
|                             | 68       | 12       | 0.6              | 14.1                       | 10.9                  | 9 700                                                                                  | –         | –         | 11 000                                                                  | <b>6909</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.132                                 |
|                             | 75       | 10       | 0.6              | 15.5                       | 12.3                  | 8 900                                                                                  | –         | –         | 10 000                                                                  | <b>16009</b> | –              | –             | –          | –          | 0.170                                 |
|                             | 75       | 16       | 1                | 21.0                       | 15.1                  | 9 200                                                                                  | –         | 5 300     | 11 000                                                                  | <b>6009</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.245                                 |
|                             | 85       | 19       | 1.1              | 32.7                       | 20.3                  | 7 700                                                                                  | 6 900     | 5 100     | 9 200                                                                   | <b>6209</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.407                                 |
|                             | 100      | 25       | 1.5              | 48.9                       | 29.5                  | 6 800                                                                                  | 6 100     | 4 500     | 8 100                                                                   | <b>6309</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.833                                 |
|                             | 120      | 29       | 2                | 77.2                       | 45.1                  | 6 000                                                                                  | –         | –         | 7 200                                                                   | <b>6409</b>  | –              | –             | –          | –          | 1.53                                  |

Remark) Standard cage types used for the above bearings are described earlier in this section.

# Single-row deep groove ball bearings

**d 50 – (70) mm**



Open

Shielded

Non-contact  
sealed

Extremely light  
contact sealed

Contact sealed

| Boundary dimensions<br>(mm) |          |          |                  | Basic load ratings<br>(kN) |                        | Limiting speeds (min <sup>-1</sup> )                         |           |           |                                        | Bearing No.  |                |               |            |            | (Refer.)<br>Mass  |
|-----------------------------|----------|----------|------------------|----------------------------|------------------------|--------------------------------------------------------------|-----------|-----------|----------------------------------------|--------------|----------------|---------------|------------|------------|-------------------|
| <i>d</i>                    | <i>D</i> | <i>B</i> | <i>r</i><br>min. | <i>C</i> <sub>r</sub>      | <i>C</i> <sub>0r</sub> | Grease lub.                                                  |           | Oil lub.  |                                        | Open         | Shielded<br>ZZ | Sealed<br>2RU | 2RD        | 2RS        | Open type<br>(kg) |
|                             |          |          |                  |                            |                        | <div><div>Open</div><div>Z, ZZ</div><div>RU, 2RU</div></div> | (RD, 2RD) | (RS, 2RS) | <div><div>Open</div><div>Z</div></div> |              |                |               |            |            |                   |
| 50                          | 65       | 7        | 0.3              | 6.60                       | 6.10                   | 9 600                                                        | –         | –         | 11 000                                 | <b>6810</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.052             |
|                             | 72       | 12       | 0.6              | 14.5                       | 11.7                   | 9 000                                                        | –         | –         | 11 000                                 | <b>6910</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.133             |
|                             | 80       | 10       | 0.6              | 16.0                       | 13.3                   | 8 200                                                        | –         | –         | 9 700                                  | <b>16010</b> | –              | –             | –          | –          | 0.180             |
|                             | 80       | 16       | 1                | 21.8                       | 16.6                   | 8 400                                                        | –         | 4 800     | 9 900                                  | <b>6010</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.261             |
|                             | 90       | 20       | 1.1              | 35.1                       | 23.3                   | 7 100                                                        | 6 400     | 4 600     | 8 500                                  | <b>6210</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 0.463             |
|                             | 110      | 27       | 2                | 62.0                       | 38.3                   | 6 100                                                        | 5 500     | 4 100     | 7 300                                  | <b>6310</b>  | <b>ZZ</b>      | <b>2RU</b>    | <b>2RD</b> | <b>2RS</b> | 1.07              |
|                             | 130      | 31       | 2.1              | 83.0                       | 49.5                   | 5 500                                                        | –         | –         | 6 600                                  | <b>6410</b>  | –              | –             | –          | –          | 1.88              |
|                             | 72       | 9        | 0.3              | 8.80                       | 8.10                   | 8 700                                                        | –         | –         | 10 000                                 | <b>6811</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.083             |
|                             | 80       | 13       | 1                | 16.6                       | 14.1                   | 8 100                                                        | –         | –         | 9 600                                  | <b>6911</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.185             |
|                             | 90       | 11       | 0.6              | 19.3                       | 16.3                   | 7 400                                                        | –         | –         | 8 800                                  | <b>16011</b> | –              | –             | –          | –          | 0.260             |
| 55                          | 90       | 18       | 1.1              | 28.3                       | 21.2                   | 7 600                                                        | –         | 4 300     | 8 900                                  | <b>6011</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.385             |
|                             | 100      | 21       | 1.5              | 43.4                       | 29.4                   | 6 300                                                        | –         | 4 100     | 7 600                                  | <b>6211</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.607             |
|                             | 120      | 29       | 2                | 71.6                       | 45.0                   | 5 600                                                        | –         | 3 700     | 6 700                                  | <b>6311</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 1.37              |
|                             | 140      | 33       | 2.1              | 100                        | 62.3                   | 5 000                                                        | –         | –         | 6 000                                  | <b>6411</b>  | –              | –             | –          | –          | 2.29              |
|                             | 78       | 10       | 0.3              | 11.5                       | 10.6                   | 8 000                                                        | –         | –         | 9 400                                  | <b>6812</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.104             |
|                             | 85       | 13       | 1                | 20.2                       | 17.3                   | 7 500                                                        | –         | –         | 8 900                                  | <b>6912</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.192             |
|                             | 95       | 11       | 0.6              | 19.8                       | 17.6                   | 6 900                                                        | –         | –         | 8 100                                  | <b>16012</b> | –              | –             | –          | –          | 0.280             |
|                             | 95       | 18       | 1.1              | 29.4                       | 23.2                   | 7 100                                                        | –         | 4 000     | 8 400                                  | <b>6012</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.415             |
|                             | 110      | 22       | 1.5              | 52.4                       | 36.2                   | 5 700                                                        | –         | 3 700     | 6 900                                  | <b>6212</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.783             |
|                             | 130      | 31       | 2.1              | 81.9                       | 52.2                   | 5 200                                                        | –         | 3 500     | 6 200                                  | <b>6312</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 1.70              |
| 60                          | 150      | 35       | 2.1              | 110                        | 70.8                   | 4 600                                                        | –         | –         | 5 500                                  | <b>6412</b>  | –              | –             | –          | –          | 2.77              |
|                             | 85       | 10       | 0.6              | 11.9                       | 11.5                   | 7 300                                                        | –         | –         | 8 600                                  | <b>6813</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.126             |
|                             | 90       | 13       | 1                | 17.4                       | 16.1                   | 7 100                                                        | –         | –         | 8 400                                  | <b>6913</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.211             |
|                             | 100      | 11       | 0.6              | 17.1                       | 16.0                   | 6 600                                                        | –         | –         | 7 800                                  | <b>16013</b> | –              | –             | –          | –          | 0.300             |
|                             | 100      | 18       | 1.1              | 30.5                       | 25.2                   | 6 600                                                        | –         | 3 700     | 7 800                                  | <b>6013</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.435             |
|                             | 120      | 23       | 1.5              | 57.2                       | 40.1                   | 5 400                                                        | –         | 3 500     | 6 400                                  | <b>6213</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.990             |
|                             | 140      | 33       | 2.1              | 92.7                       | 59.9                   | 4 800                                                        | –         | 3 200     | 5 800                                  | <b>6313</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 2.08              |
|                             | 160      | 37       | 2.1              | 118                        | 79.2                   | 4 300                                                        | –         | –         | 5 200                                  | <b>6413</b>  | –              | –             | –          | –          | 3.30              |
|                             | 90       | 10       | 0.6              | 12.1                       | 11.9                   | 6 800                                                        | –         | –         | 8 100                                  | <b>6814</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.134             |
|                             | 100      | 16       | 1                | 23.7                       | 21.2                   | 6 400                                                        | –         | –         | 7 600                                  | <b>6914</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | –          | 0.342             |
| 70                          | 110      | 13       | 0.6              | 30.1                       | 25.6                   | 6 100                                                        | –         | –         | 7 200                                  | <b>16014</b> | –              | –             | –          | –          | 0.433             |
|                             | 110      | 20       | 1.1              | 38.1                       | 30.9                   | 6 100                                                        | –         | 3 500     | 7 200                                  | <b>6014</b>  | <b>ZZ</b>      | <b>2RU</b>    | –          | <b>2RS</b> | 0.602             |

Remark) Standard cage types used for the above bearings are described earlier in this section.

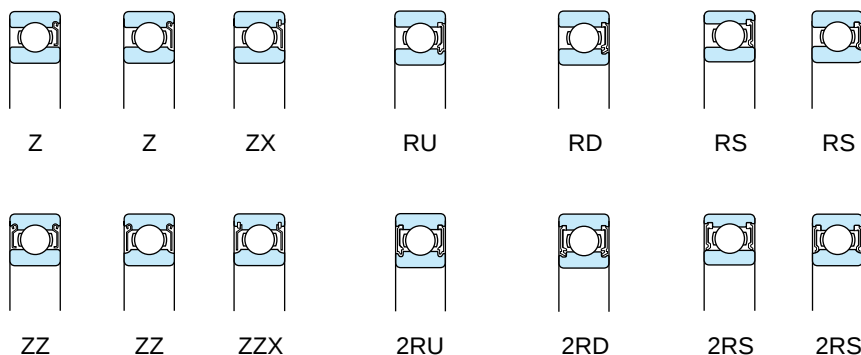
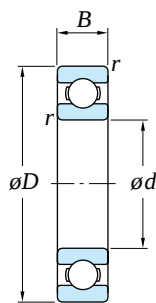
**$d$  (70) – 105 mm**

| Boundary dimensions<br>(mm) |          |          |                  | Basic load ratings<br>(kN) |                        | Limiting speeds (min <sup>-1</sup> )                                                        |           |           |                                                                       | Bearing No. |                |               |     |     | (Refer.)<br>Mass<br>Open type<br>(kg) |
|-----------------------------|----------|----------|------------------|----------------------------|------------------------|---------------------------------------------------------------------------------------------|-----------|-----------|-----------------------------------------------------------------------|-------------|----------------|---------------|-----|-----|---------------------------------------|
|                             |          |          |                  |                            |                        | Grease lub.                                                                                 |           | Oil lub.  |                                                                       |             |                |               |     |     |                                       |
| <i>d</i>                    | <i>D</i> | <i>B</i> | <i>r</i><br>min. | <i>C</i> <sub>r</sub>      | <i>C</i> <sub>0r</sub> | $\left[ \begin{array}{c} \text{Open} \\ \text{Z, ZZ} \\ \text{RU, 2RU} \end{array} \right]$ | (RD, 2RD) | (RS, 2RS) | $\left[ \begin{array}{c} \text{Open} \\ \text{Z} \end{array} \right]$ | Open        | Shielded<br>ZZ | Sealed<br>2RU | 2RD | 2RS |                                       |
| 70                          | 125      | 24       | 1.5              | 62.2                       | 44.1                   | 5 100                                                                                       | —         | 3 300     | 6 100                                                                 | 6214        | ZZ             | 2RU           | —   | 2RS | 1.07                                  |
|                             | 150      | 35       | 2.1              | 104                        | 68.2                   | 4 500                                                                                       | —         | 3 000     | 5 400                                                                 | 6314        | ZZ             | 2RU           | —   | 2RS | 2.52                                  |
|                             | 180      | 42       | 3                | 144                        | 104                    | 3 900                                                                                       | —         | —         | 4 600                                                                 | 6414        | —              | —             | —   | —   | 4.83                                  |
| 75                          | 95       | 10       | 0.6              | 12.5                       | 12.9                   | 6 400                                                                                       | —         | —         | 7 600                                                                 | 6815        | ZZ             | 2RU           | —   | —   | 0.142                                 |
|                             | 105      | 16       | 1                | 24.4                       | 22.6                   | 6 100                                                                                       | —         | —         | 7 200                                                                 | 6915        | ZZ             | 2RU           | —   | —   | 0.363                                 |
|                             | 115      | 13       | 0.6              | 27.5                       | 25.3                   | 5 700                                                                                       | —         | —         | 6 700                                                                 | 16015       | —              | —             | —   | —   | 0.457                                 |
| 80                          | 115      | 20       | 1.1              | 39.6                       | 33.5                   | 5 700                                                                                       | —         | 3 300     | 6 800                                                                 | 6015        | ZZ             | 2RU           | —   | 2RS | 0.638                                 |
|                             | 130      | 25       | 1.5              | 67.4                       | 48.3                   | 4 800                                                                                       | —         | 3 100     | 5 800                                                                 | 6215        | ZZ             | 2RU           | —   | 2RS | 1.18                                  |
|                             | 160      | 37       | 2.1              | 113                        | 77.2                   | 4 200                                                                                       | —         | 2 800     | 5 000                                                                 | 6315        | ZZ             | 2RU           | —   | 2RS | 3.02                                  |
|                             | 190      | 45       | 3                | 154                        | 115                    | 3 600                                                                                       | —         | —         | 4 400                                                                 | 6415        | —              | —             | —   | —   | 5.87                                  |
|                             | 100      | 10       | 0.6              | 12.7                       | 13.3                   | 6 100                                                                                       | —         | —         | 7 200                                                                 | 6816        | ZZ             | 2RU           | —   | —   | 0.150                                 |
|                             | 110      | 16       | 1                | 25.0                       | 24.0                   | 5 700                                                                                       | —         | —         | 6 800                                                                 | 6916        | ZZ             | 2RU           | —   | —   | 0.382                                 |
| 85                          | 125      | 14       | 0.6              | 31.7                       | 29.7                   | 5 200                                                                                       | —         | —         | 6 100                                                                 | 16016       | —              | —             | —   | —   | 0.597                                 |
|                             | 125      | 22       | 1.1              | 47.6                       | 39.8                   | 5 300                                                                                       | —         | 3 100     | 6 300                                                                 | 6016        | ZZ             | —             | —   | 2RS | 0.850                                 |
|                             | 140      | 26       | 2                | 72.7                       | 53.0                   | 4 500                                                                                       | —         | 2 900     | 5 400                                                                 | 6216        | ZZ             | —             | —   | 2RS | 1.40                                  |
|                             | 170      | 39       | 2.1              | 123                        | 86.7                   | 3 900                                                                                       | —         | 2 700     | 4 700                                                                 | 6316        | ZZ             | —             | —   | 2RS | 3.59                                  |
|                             | 200      | 48       | 3                | 164                        | 125                    | 3 400                                                                                       | —         | —         | 4 100                                                                 | 6416        | —              | —             | —   | —   | 6.84                                  |
|                             | 110      | 13       | 1                | 18.7                       | 19.0                   | 5 600                                                                                       | —         | —         | 6 600                                                                 | 6817        | ZZ             | 2RU           | —   | —   | 0.266                                 |
| 90                          | 120      | 18       | 1.1              | 31.9                       | 29.6                   | 5 300                                                                                       | —         | —         | 6 300                                                                 | 6917        | ZZ             | 2RU           | —   | —   | 0.535                                 |
|                             | 130      | 14       | 0.6              | 32.6                       | 31.7                   | 4 900                                                                                       | —         | —         | 5 800                                                                 | 16017       | —              | —             | —   | —   | 0.626                                 |
|                             | 130      | 22       | 1.1              | 49.5                       | 43.1                   | 5 000                                                                                       | —         | 2 900     | 5 900                                                                 | 6017        | ZZ             | —             | —   | 2RS | 0.890                                 |
|                             | 150      | 28       | 2                | 84.0                       | 61.9                   | 4 200                                                                                       | —         | 2 700     | 5 000                                                                 | 6217        | ZZ             | —             | —   | 2RS | 1.79                                  |
|                             | 180      | 41       | 3                | 133                        | 96.8                   | 3 700                                                                                       | —         | 2 500     | 4 400                                                                 | 6317        | ZZX            | —             | —   | 2RS | 4.23                                  |
|                             | 210      | 52       | 4                | 173                        | 136                    | 3 300                                                                                       | —         | —         | 3 900                                                                 | 6417        | —              | —             | —   | —   | 8.07                                  |
| 95                          | 115      | 13       | 1                | 19.0                       | 19.7                   | 5 300                                                                                       | —         | —         | 6 300                                                                 | 6818        | ZZ             | 2RU           | —   | —   | 0.279                                 |
|                             | 125      | 18       | 1.1              | 32.8                       | 31.6                   | 5 100                                                                                       | —         | —         | 6 000                                                                 | 6918        | ZZ             | 2RU           | —   | —   | 0.565                                 |
|                             | 140      | 16       | 1                | 39.9                       | 37.0                   | 4 700                                                                                       | —         | —         | 5 600                                                                 | 16018       | —              | —             | —   | —   | 0.848                                 |
|                             | 140      | 24       | 1.5              | 58.2                       | 49.7                   | 4 700                                                                                       | —         | 2 700     | 5 600                                                                 | 6018        | ZZ             | —             | —   | 2RS | 1.16                                  |
| 100                         | 160      | 30       | 2                | 96.1                       | 71.5                   | 3 900                                                                                       | —         | 2 600     | 4 700                                                                 | 6218        | ZZ             | —             | —   | 2RS | 2.15                                  |
|                             | 190      | 43       | 3                | 143                        | 107                    | 3 500                                                                                       | —         | 2 400     | 4 200                                                                 | 6318        | ZZX            | —             | —   | 2RS | 4.91                                  |
|                             | 225      | 54       | 4                | 184                        | 149                    | 3 100                                                                                       | —         | —         | 3 700                                                                 | 6418        | —              | —             | —   | —   | 9.78                                  |
|                             | 130      | 18       | 1.1              | 33.7                       | 33.5                   | 4 800                                                                                       | —         | —         | 5 700                                                                 | 6919        | ZZ             | 2RU           | —   | —   | 0.705                                 |
| 105                         | 145      | 16       | 1                | 41.2                       | 39.6                   | 4 500                                                                                       | —         | —         | 5 300                                                                 | 16019       | —              | —             | —   | —   | 0.885                                 |
|                             | 145      | 24       | 1.5              | 60.4                       | 53.9                   | 4 400                                                                                       | —         | 2 500     | 5 200                                                                 | 6019        | ZZX            | 2RU           | —   | 2RS | 1.21                                  |
|                             | 170      | 32       | 2.1              | 109                        | 81.9                   | 3 700                                                                                       | —         | 2 400     | 4 400                                                                 | 6219        | ZZX            | —             | —   | 2RS | 2.62                                  |
|                             | 200      | 45       | 3                | 153                        | 119                    | 3 300                                                                                       | —         | 2 200     | 4 000                                                                 | 6319        | ZZX            | —             | —   | 2RS | 5.67                                  |
| 110                         | 125      | 13       | 1                | 19.6                       | 21.2                   | 4 800                                                                                       | —         | —         | 5 700                                                                 | 6820        | ZZ             | 2RU           | —   | —   | 0.309                                 |
|                             | 140      | 20       | 1.1              | 45.0                       | 41.9                   | 4 500                                                                                       | —         | —         | 5 300                                                                 | 6920        | ZZ             | 2RU           | —   | —   | 0.960                                 |
|                             | 150      | 16       | 1                | 42.4                       | 42.1                   | 4 300                                                                                       | —         | —         | 5 100                                                                 | 16020       | —              | —             | —   | —   | 0.910                                 |
|                             | 150      | 24       | 1.5              | 60.2                       | 54.2                   | 4 300                                                                                       | —         | 2 500     | 5 100                                                                 | 6020        | ZZ             | —             | —   | 2RS | 1.25                                  |
| 115                         | 180      | 34       | 2.1              | 122                        | 93.1                   | 3 500                                                                                       | —         | 2 300     | 4 200                                                                 | 6220        | ZZX            | —             | —   | 2RS | 3.14                                  |
|                             | 215      | 47       | 3                | 173                        | 141                    | 3 000                                                                                       | —         | 2 100     | 3 600                                                                 | 6320        | ZZX            | —             | —   | 2RS | 7.00                                  |
|                             | 145      | 20       | 1.1              | 46.5                       | 44.8                   | 4 300                                                                                       | —         | —         | 5 100                                                                 | 6921        | ZZ             | —             | —   | —   | 1.00                                  |
|                             | 160      | 18       | 1                | 41.9                       | 42.2                   | 4 100                                                                                       | —         | —         | 4 800                                                                 | 16021       | —              | —             | —   | —   | 1.20                                  |
| 120                         | 160      | 26       | 2                | 72.3                       | 65.8                   | 4 000                                                                                       | —         | 2 300     | 4 700                                                                 | 6021        | ZZX            | —             | —   | 2RS | 1.59                                  |
|                             | 190      | 36       | 2.1              | 133                        | 105                    | 3 300                                                                                       | —         | 2 200     | 3 900                                                                 | 6221        | ZZX            | —             | —   | 2RS | 3.70                                  |
|                             | 225      | 49       | 3                | 184                        | 153                    | 2 900                                                                                       | —         | 2 000     | 3 500                                                                 | 6321        | ZZX            | —             | —   | 2RS | 8.05                                  |

Remark) Standard cage types used for the above bearings are described earlier in this section.

# Single-row deep groove ball bearings

**d 110 – (160) mm**



Open

Shielded

Non-contact  
sealed

Extremely light  
contact sealed

Contact sealed

| Boundary dimensions<br>(mm) |          |          |                  | Basic load ratings<br>(kN) |                        | Limiting speeds (min <sup>-1</sup> )                         |           |           |       | Bearing No.    |               |     |     |     | (Refer.)<br>Mass<br>Open type<br>(kg)  |
|-----------------------------|----------|----------|------------------|----------------------------|------------------------|--------------------------------------------------------------|-----------|-----------|-------|----------------|---------------|-----|-----|-----|----------------------------------------|
| <i>d</i>                    | <i>D</i> | <i>B</i> | <i>r</i><br>min. | <i>C</i> <sub>r</sub>      | <i>C</i> <sub>0r</sub> | Grease lub.                                                  |           | Oil lub.  | Open  | Shielded<br>ZZ | Sealed<br>2RU | 2RD | 2RS |     |                                        |
|                             |          |          |                  |                            |                        | <div><div>Open</div><div>Z, ZZ</div><div>RU, 2RU</div></div> | (RD, 2RD) | (RS, 2RS) |       |                |               |     |     |     | <div><div>Open</div><div>Z</div></div> |
| 110                         | 140      | 16       | 1                | 28.1                       | 30.7                   | 4 300                                                        | —         | —         | 5 100 | 6822           | ZZ            | —   | —   | —   | 0.606                                  |
|                             | 150      | 20       | 1.1              | 47.9                       | 47.8                   | 4 100                                                        | —         | —         | 4 900 | 6922           | ZZ            | —   | —   | —   | 1.04                                   |
|                             | 170      | 19       | 1                | 57.5                       | 56.7                   | 3 800                                                        | —         | —         | 4 500 | 16022          | —             | —   | —   | —   | 1.46                                   |
|                             | 170      | 28       | 2                | 82.0                       | 73.0                   | 3 800                                                        | —         | 2 200     | 4 500 | 6022           | ZZX           | —   | —   | 2RS | 1.96                                   |
|                             | 200      | 38       | 2.1              | 144                        | 117                    | 3 100                                                        | —         | 2 000     | 3 700 | 6222           | ZZX           | —   | —   | 2RS | 4.36                                   |
|                             | 240      | 50       | 3                | 205                        | 180                    | 2 700                                                        | —         | 1 900     | 3 200 | 6322           | ZZX           | —   | —   | 2RS | 9.54                                   |
| 120                         | 150      | 16       | 1                | 29.0                       | 33.0                   | 4 000                                                        | —         | —         | 4 700 | 6824           | ZZ            | —   | —   | —   | 0.655                                  |
|                             | 165      | 22       | 1.1              | 57.2                       | 56.9                   | 3 800                                                        | —         | —         | 4 400 | 6924           | ZZ            | —   | —   | —   | 1.41                                   |
|                             | 180      | 19       | 1                | 63.2                       | 63.3                   | 3 600                                                        | —         | —         | 4 200 | 16024          | —             | —   | —   | —   | 1.80                                   |
|                             | 180      | 28       | 2                | 85.0                       | 79.3                   | 3 600                                                        | —         | 2 100     | 4 200 | 6024           | ZZX           | —   | —   | 2RS | 2.07                                   |
|                             | 215      | 40       | 2.1              | 155                        | 131                    | 2 900                                                        | —         | 1 900     | 3 400 | 6224           | ZZX           | —   | —   | 2RS | 5.15                                   |
|                             | 260      | 55       | 3                | 207                        | 185                    | 2 500                                                        | —         | —         | 3 000 | 6324           | ZZX           | —   | —   | —   | 12.5                                   |
| 130                         | 165      | 18       | 1.1              | 36.9                       | 41.2                   | 3 600                                                        | —         | —         | 4 300 | 6826           | —             | —   | —   | —   | 0.939                                  |
|                             | 180      | 24       | 1.5              | 69.6                       | 70.0                   | 3 400                                                        | —         | —         | 4 100 | 6926           | —             | —   | —   | —   | 1.86                                   |
|                             | 200      | 22       | 1.1              | 71.3                       | 74.8                   | 3 000                                                        | —         | —         | 3 600 | 16026          | —             | —   | —   | —   | 2.69                                   |
|                             | 200      | 33       | 2                | 106                        | 101                    | 3 200                                                        | —         | 1 900     | 3 800 | 6026           | ZZX           | —   | —   | 2RS | 3.16                                   |
|                             | 230      | 40       | 3                | 167                        | 146                    | 2 700                                                        | —         | 1 800     | 3 200 | 6226           | ZZX           | —   | —   | 2RS | 5.82                                   |
|                             | 280      | 58       | 4                | 229                        | 214                    | 2 300                                                        | —         | —         | 2 700 | 6326           | ZZX           | —   | —   | —   | 15.1                                   |
| 140                         | 175      | 18       | 1.1              | 38.2                       | 44.4                   | 3 400                                                        | —         | —         | 4 000 | 6828           | —             | —   | —   | —   | 1.00                                   |
|                             | 190      | 24       | 1.5              | 71.3                       | 74.8                   | 3 200                                                        | —         | —         | 3 800 | 6928           | —             | —   | —   | —   | 1.98                                   |
|                             | 210      | 22       | 1.1              | 65.8                       | 71.1                   | 2 900                                                        | —         | —         | 3 400 | 16028          | —             | —   | —   | —   | 2.86                                   |
|                             | 210      | 33       | 2                | 110                        | 109                    | 3 000                                                        | —         | 1 800     | 3 600 | 6028           | ZZX           | —   | —   | 2RS | 3.55                                   |
|                             | 250      | 42       | 3                | 166                        | 150                    | 2 400                                                        | —         | 1 600     | 2 900 | 6228           | ZZX           | —   | —   | 2RS | 7.45                                   |
|                             | 300      | 62       | 4                | 253                        | 246                    | 2 100                                                        | —         | —         | 2 500 | 6328           | ZZX           | —   | —   | —   | 19.4                                   |
| 150                         | 190      | 20       | 1.1              | 47.8                       | 54.9                   | 3 100                                                        | —         | —         | 3 700 | 6830           | —             | —   | —   | —   | 1.40                                   |
|                             | 210      | 28       | 2                | 93.4                       | 94.3                   | 2 900                                                        | —         | —         | 3 400 | 6930           | —             | —   | —   | —   | 3.05                                   |
|                             | 225      | 24       | 1.1              | 91.2                       | 99.3                   | 2 700                                                        | —         | —         | 3 100 | 16030          | —             | —   | —   | —   | 3.58                                   |
|                             | 225      | 35       | 2.1              | 125                        | 126                    | 2 800                                                        | —         | 1 600     | 3 300 | 6030           | ZZX           | —   | —   | 2RS | 4.22                                   |
|                             | 270      | 45       | 3                | 176                        | 168                    | 2 200                                                        | —         | —         | 2 700 | 6230           | ZZX           | —   | —   | —   | 9.41                                   |
|                             | 320      | 65       | 4                | 275                        | 284                    | 1 900                                                        | —         | —         | 2 300 | 6330           | —             | —   | —   | —   | 26.2                                   |
| 160                         | 200      | 20       | 1.1              | 48.4                       | 56.9                   | 2 900                                                        | —         | —         | 3 400 | 6832           | —             | —   | —   | —   | 1.45                                   |
|                             | 220      | 28       | 2                | 96.1                       | 101                    | 2 700                                                        | —         | —         | 3 200 | 6932           | —             | —   | —   | —   | 3.20                                   |
|                             | 240      | 25       | 1.5              | 98.8                       | 108                    | 2 600                                                        | —         | —         | 3 100 | 16032          | —             | —   | —   | —   | 4.25                                   |

Remark) Standard cage types used for the above bearings are described earlier in this section.

# **d (160) – 200 mm**

| Boundary dimensions<br>(mm) |          |          |                  | Basic load ratings<br>(kN) |                       | Limiting speeds (min <sup>-1</sup> )                                          |           |           |                                                                |              | Bearing No. |                |               |     |            | (Refer.)<br>Mass<br>Open type<br>(kg) |
|-----------------------------|----------|----------|------------------|----------------------------|-----------------------|-------------------------------------------------------------------------------|-----------|-----------|----------------------------------------------------------------|--------------|-------------|----------------|---------------|-----|------------|---------------------------------------|
| <i>d</i>                    | <i>D</i> | <i>B</i> | <i>r</i><br>min. | <i>C<sub>r</sub></i>       | <i>C<sub>0r</sub></i> | Grease lub.                                                                   |           | Oil lub.  |                                                                |              | Open        | Shielded<br>ZZ | Sealed<br>2RU | 2RD | 2RS        |                                       |
|                             |          |          |                  |                            |                       | $\left[ \begin{array}{c} \text{Open} \\ Z, ZZ \\ RU, 2RU \end{array} \right]$ | (RD, 2RD) | (RS, 2RS) | $\left[ \begin{array}{c} \text{Open} \\ Z \end{array} \right]$ |              |             |                |               |     |            |                                       |
| <b>160</b>                  | 240      | 38       | 2.1              | 136                        | 135                   | 2 600                                                                         | –         | 1 500     | 3 000                                                          | <b>6032</b>  | <b>ZZX</b>  | –              | –             | –   | <b>2RS</b> | 5.22                                  |
|                             | 290      | 48       | 3                | 185                        | 186                   | 2 100                                                                         | –         | –         | 2 500                                                          | <b>6232</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 14.3                                  |
|                             | 340      | 68       | 4                | 278                        | 286                   | 1 800                                                                         | –         | –         | 2 200                                                          | <b>6332</b>  | –           | –              | –             | –   | –          | 29.0                                  |
| <b>170</b>                  | 215      | 22       | 1.1              | 59.8                       | 70.5                  | 2 700                                                                         | –         | –         | 3 200                                                          | <b>6834</b>  | –           | –              | –             | –   | –          | 1.90                                  |
|                             | 230      | 28       | 2                | 98.8                       | 108                   | 2 600                                                                         | –         | –         | 3 100                                                          | <b>6934</b>  | –           | –              | –             | –   | –          | 3.35                                  |
|                             | 260      | 28       | 1.5              | 114                        | 127                   | 2 300                                                                         | –         | –         | 2 700                                                          | <b>16034</b> | –           | –              | –             | –   | –          | 5.75                                  |
|                             | 260      | 42       | 2.1              | 161                        | 161                   | 2 400                                                                         | –         | –         | 2 800                                                          | <b>6034</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 6.80                                  |
|                             | 310      | 52       | 4                | 212                        | 223                   | 1 900                                                                         | –         | –         | 2 300                                                          | <b>6234</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 17.5                                  |
|                             | 360      | 72       | 4                | 326                        | 355                   | 1 700                                                                         | –         | –         | 2 000                                                          | <b>6334</b>  | –           | –              | –             | –   | –          | 38.6                                  |
|                             | 225      | 22       | 1.1              | 60.7                       | 73.1                  | 2 600                                                                         | –         | –         | 3 000                                                          | <b>6836</b>  | –           | –              | –             | –   | –          | 2.00                                  |
|                             | 250      | 33       | 2                | 123                        | 129                   | 2 400                                                                         | –         | –         | 2 800                                                          | <b>6936</b>  | –           | –              | –             | –   | –          | 4.90                                  |
|                             | 280      | 31       | 2                | 135                        | 148                   | 2 100                                                                         | –         | –         | 2 500                                                          | <b>16036</b> | –           | –              | –             | –   | –          | 7.55                                  |
| <b>180</b>                  | 280      | 46       | 2.1              | 182                        | 194                   | 2 200                                                                         | –         | –         | 2 600                                                          | <b>6036</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 10.3                                  |
|                             | 320      | 52       | 4                | 227                        | 241                   | 1 800                                                                         | –         | –         | 2 200                                                          | <b>6236</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 18.3                                  |
|                             | 380      | 75       | 4                | 354                        | 407                   | 1 600                                                                         | –         | –         | 1 900                                                          | <b>6336</b>  | –           | –              | –             | –   | –          | 44.7                                  |
|                             | 240      | 24       | 1.5              | 73.1                       | 88.1                  | 2 400                                                                         | –         | –         | 2 800                                                          | <b>6838</b>  | –           | –              | –             | –   | –          | 2.60                                  |
|                             | 260      | 33       | 2                | 126                        | 138                   | 2 300                                                                         | –         | –         | 2 700                                                          | <b>6938</b>  | –           | –              | –             | –   | –          | 5.20                                  |
|                             | 290      | 31       | 2                | 139                        | 158                   | 2 000                                                                         | –         | –         | 2 400                                                          | <b>16038</b> | –           | –              | –             | –   | –          | 7.85                                  |
| <b>190</b>                  | 290      | 46       | 2.1              | 188                        | 201                   | 2 100                                                                         | –         | –         | 2 500                                                          | <b>6038</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 10.8                                  |
|                             | 340      | 55       | 4                | 255                        | 281                   | 1 700                                                                         | –         | –         | 2 000                                                          | <b>6238</b>  | –           | –              | –             | –   | –          | 23.0                                  |
|                             | 400      | 78       | 5                | 355                        | 415                   | 1 500                                                                         | –         | –         | 1 800                                                          | <b>6338</b>  | –           | –              | –             | –   | –          | 51.5                                  |
|                             | 250      | 24       | 1.5              | 78.0                       | 93.6                  | 2 300                                                                         | –         | –         | 2 700                                                          | <b>6840</b>  | –           | –              | –             | –   | –          | 2.70                                  |
|                             | 280      | 38       | 2.1              | 157                        | 168                   | 2 100                                                                         | –         | –         | 2 500                                                          | <b>6940</b>  | –           | –              | –             | –   | –          | 7.30                                  |
|                             | 310      | 34       | 2                | 161                        | 180                   | 1 900                                                                         | –         | –         | 2 300                                                          | <b>16040</b> | –           | –              | –             | –   | –          | 10.1                                  |
| <b>200</b>                  | 310      | 51       | 2.1              | 217                        | 243                   | 1 900                                                                         | –         | –         | 2 300                                                          | <b>6040</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 14.0                                  |
|                             | 360      | 58       | 4                | 269                        | 311                   | 1 600                                                                         | –         | –         | 1 900                                                          | <b>6240</b>  | <b>ZZX</b>  | –              | –             | –   | –          | 28.2                                  |
|                             | 420      | 80       | 5                | 411                        | 506                   | 1 300                                                                         | –         | –         | 1 600                                                          | <b>6340</b>  | –           | –              | –             | –   | –          | 58.0                                  |

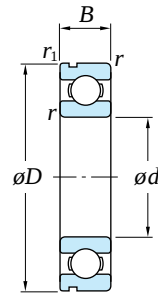
Remark) Standard cage types used for the above bearings are described earlier in this section.

# Single-row deep groove ball bearings

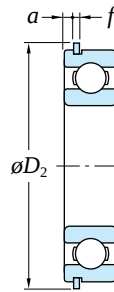
## snap ring groove type

## locating snap ring type

$d$  10 – 35 mm



N  
With snap  
ring groove



NR  
With locating  
snap ring



With locating snap  
ring and one shield

| Boundary dimensions<br>(mm) |     |     |             |              | Basic load ratings<br>(kN) |          | Limiting speeds<br>(min <sup>-1</sup> ) |          | Bearing No.              |                            | Dimensions of locating snap ring (mm) |             |                   | (Refer.)<br>Mass<br>(kg) |
|-----------------------------|-----|-----|-------------|--------------|----------------------------|----------|-----------------------------------------|----------|--------------------------|----------------------------|---------------------------------------|-------------|-------------------|--------------------------|
| $d$                         | $D$ | $B$ | $r_{\min.}$ | $r_{1\min.}$ | $C_r$                      | $C_{0r}$ | Grease<br>lub.                          | Oil lub. | With snap<br>ring groove | With locating<br>snap ring | $D_2$<br>max.                         | $a$<br>max. | $f$<br>$\pm 0.05$ |                          |
| 10                          | 30  | 9   | 0.6         | 0.3          | 5.10                       | 2.40     | 24 000                                  | 29 000   | 6200N                    | 6200NR                     | 34.7                                  | 2.06        | 1.07              | 0.032                    |
|                             | 35  | 11  | 0.6         | 0.5          | 8.10                       | 3.45     | 22 000                                  | 27 000   | 6300N                    | 6300NR                     | 39.7                                  | 2.06        | 1.07              | 0.053                    |
| 12                          | 32  | 10  | 0.6         | 0.3          | 6.80                       | 3.05     | 22 000                                  | 27 000   | 6201N                    | 6201NR                     | 36.7                                  | 2.06        | 1.07              | 0.037                    |
|                             | 37  | 12  | 1           | 0.5          | 9.70                       | 4.20     | 20 000                                  | 25 000   | 6301N                    | 6301NR                     | 41.3                                  | 2.06        | 1.07              | 0.060                    |
| 15                          | 35  | 11  | 0.6         | 0.5          | 7.65                       | 3.75     | 20 000                                  | 24 000   | 6202N                    | 6202NR                     | 39.7                                  | 2.06        | 1.07              | 0.045                    |
|                             | 42  | 13  | 1           | 0.5          | 11.4                       | 5.45     | 17 000                                  | 20 000   | 6302N                    | 6302NR                     | 46.3                                  | 2.06        | 1.07              | 0.082                    |
| 17                          | 40  | 12  | 0.6         | 0.5          | 9.55                       | 4.80     | 17 000                                  | 21 000   | 6203N                    | 6203NR                     | 44.6                                  | 2.06        | 1.07              | 0.065                    |
|                             | 47  | 14  | 1           | 0.5          | 13.6                       | 6.65     | 15 000                                  | 18 000   | 6303N                    | 6303NR                     | 52.7                                  | 2.46        | 1.07              | 0.115                    |
| 20                          | 42  | 12  | 0.6         | 0.5          | 9.40                       | 5.05     | 17 000                                  | 21 000   | 6004N                    | 6004NR                     | 46.3                                  | 2.06        | 1.07              | 0.069                    |
|                             | 47  | 14  | 1           | 0.5          | 12.8                       | 6.65     | 15 000                                  | 17 000   | 6204N                    | 6204NR                     | 52.7                                  | 2.46        | 1.07              | 0.106                    |
|                             | 52  | 15  | 1.1         | 0.5          | 15.9                       | 7.85     | 14 000                                  | 17 000   | 6304N                    | 6304NR                     | 57.9                                  | 2.46        | 1.07              | 0.144                    |
| 22                          | 44  | 12  | 0.6         | 0.5          | 9.40                       | 5.15     | 17 000                                  | 20 000   | 60/22N                   | 60/22NR                    | 48.3                                  | 2.06        | 1.07              | 0.073                    |
|                             | 50  | 14  | 1           | 0.5          | 12.8                       | 6.65     | 15 000                                  | 17 000   | 62/22N                   | 62/22NR                    | 55.7                                  | 2.46        | 1.07              | 0.118                    |
|                             | 56  | 16  | 1.1         | 0.5          | 18.5                       | 9.40     | 13 000                                  | 15 000   | 63/22N                   | 63/22NR                    | 61.7                                  | 2.46        | 1.07              | 0.201                    |
| 25                          | 47  | 12  | 0.6         | 0.5          | 10.1                       | 5.85     | 15 000                                  | 18 000   | 6005N                    | 6005NR                     | 52.7                                  | 2.06        | 1.07              | 0.080                    |
|                             | 52  | 15  | 1           | 0.5          | 14.0                       | 7.85     | 13 000                                  | 15 000   | 6205N                    | 6205NR                     | 57.9                                  | 2.46        | 1.07              | 0.128                    |
|                             | 62  | 17  | 1.1         | 0.5          | 20.6                       | 11.3     | 11 000                                  | 13 000   | 6305N                    | 6305NR                     | 67.7                                  | 3.28        | 1.65              | 0.232                    |
| 28                          | 52  | 12  | 0.6         | 0.5          | 12.4                       | 7.40     | 14 000                                  | 16 000   | 60/28N                   | 60/28NR                    | 57.9                                  | 2.06        | 1.07              | 0.097                    |
|                             | 58  | 16  | 1           | 0.5          | 17.9                       | 9.75     | 12 000                                  | 14 000   | 62/28N                   | 62/28NR                    | 63.7                                  | 2.46        | 1.07              | 0.173                    |
|                             | 68  | 18  | 1.1         | 0.5          | 23.5                       | 13.1     | 10 000                                  | 12 000   | 63/28N                   | 63/28NR                    | 74.6                                  | 3.28        | 1.65              | 0.328                    |
| 30                          | 55  | 13  | 1           | 0.5          | 13.2                       | 8.25     | 13 000                                  | 15 000   | 6006N                    | 6006NR                     | 60.7                                  | 2.08        | 1.07              | 0.116                    |
|                             | 62  | 16  | 1           | 0.5          | 19.5                       | 11.3     | 11 000                                  | 13 000   | 6206N                    | 6206NR                     | 67.7                                  | 3.28        | 1.65              | 0.199                    |
|                             | 72  | 19  | 1.1         | 0.5          | 26.7                       | 15.0     | 9 600                                   | 12 000   | 6306N                    | 6306NR                     | 78.6                                  | 3.28        | 1.65              | 0.346                    |
| 32                          | 58  | 13  | 1           | 0.5          | 15.0                       | 9.15     | 12 000                                  | 14 000   | 60/32N                   | 60/32NR                    | 63.7                                  | 2.08        | 1.07              | 0.127                    |
|                             | 65  | 17  | 1           | 0.5          | 23.5                       | 13.1     | 10 000                                  | 12 000   | 62/32N                   | 62/32NR                    | 70.7                                  | 3.28        | 1.65              | 0.228                    |
|                             | 75  | 20  | 1.1         | 0.5          | 30.1                       | 16.2     | 9 300                                   | 11 000   | 63/32N                   | 63/32NR                    | 81.6                                  | 3.28        | 1.65              | 0.437                    |
| 35                          | 62  | 14  | 1           | 0.5          | 15.9                       | 10.3     | 11 000                                  | 13 000   | 6007N                    | 6007NR                     | 67.7                                  | 2.08        | 1.65              | 0.155                    |
|                             | 72  | 17  | 1.1         | 0.5          | 25.7                       | 15.4     | 9 200                                   | 11 000   | 6207N                    | 6207NR                     | 78.6                                  | 3.28        | 1.65              | 0.288                    |
|                             | 80  | 21  | 1.5         | 0.5          | 33.4                       | 19.3     | 8 500                                   | 10 000   | 6307N                    | 6307NR                     | 86.6                                  | 3.28        | 1.65              | 0.457                    |

Remark) Standard cage types used for the above bearings are described earlier in this section.

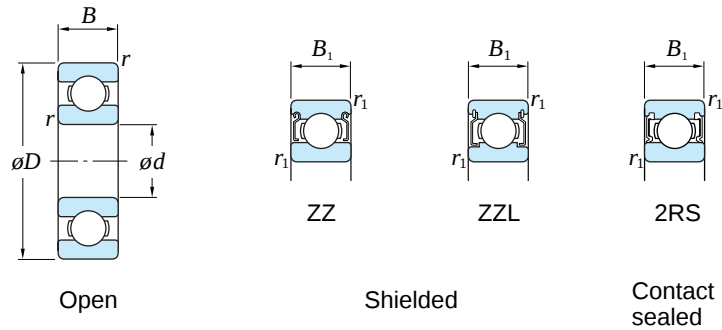
# **d 40 – 130 mm**

| Boundary dimensions<br>(mm) |          |          |                  |                               | Basic load ratings<br>(kN) |                        | Limiting speeds<br>(min <sup>-1</sup> ) |          | Bearing No.              |                            | Dimensions of locating snap ring (mm) |                  |                   | (Refer.)<br>Mass<br>(kg) |
|-----------------------------|----------|----------|------------------|-------------------------------|----------------------------|------------------------|-----------------------------------------|----------|--------------------------|----------------------------|---------------------------------------|------------------|-------------------|--------------------------|
| <i>d</i>                    | <i>D</i> | <i>B</i> | <i>r</i><br>min. | <i>r</i> <sub>1</sub><br>min. | <i>C</i> <sub>r</sub>      | <i>C</i> <sub>0r</sub> | Grease<br>lub.                          | Oil lub. | With snap<br>ring groove | With locating<br>snap ring | <i>D</i> <sub>2</sub><br>max.         | <i>a</i><br>max. | <i>f</i><br>±0.05 |                          |
| <b>40</b>                   | 68       | 15       | 1                | 0.5                           | 16.7                       | 11.5                   | 10 000                                  | 12 000   | <b>6008N</b>             | <b>6008NR</b>              | 74.6                                  | 2.49             | 1.65              | 0.192                    |
|                             | 80       | 18       | 1.1              | 0.5                           | 29.1                       | 17.8                   | 8 300                                   | 10 000   | <b>6208N</b>             | <b>6208NR</b>              | 86.6                                  | 3.28             | 1.65              | 0.366                    |
|                             | 90       | 23       | 1.5              | 0.5                           | 40.7                       | 24.0                   | 7 700                                   | 9 200    | <b>6308N</b>             | <b>6308NR</b>              | 96.5                                  | 3.28             | 2.41              | 0.633                    |
| <b>45</b>                   | 75       | 16       | 1                | 0.5                           | 21.0                       | 15.1                   | 9 200                                   | 11 000   | <b>6009N</b>             | <b>6009NR</b>              | 81.6                                  | 2.49             | 1.65              | 0.245                    |
|                             | 85       | 19       | 1.1              | 0.5                           | 32.7                       | 20.3                   | 7 700                                   | 9 200    | <b>6209N</b>             | <b>6209NR</b>              | 91.6                                  | 3.28             | 1.65              | 0.407                    |
|                             | 100      | 25       | 1.5              | 0.5                           | 48.9                       | 29.5                   | 6 800                                   | 8 100    | <b>6309N</b>             | <b>6309NR</b>              | 106.5                                 | 3.28             | 2.41              | 0.833                    |
| <b>50</b>                   | 80       | 16       | 1                | 0.5                           | 21.8                       | 16.6                   | 8 400                                   | 9 900    | <b>6010N</b>             | <b>6010NR</b>              | 86.6                                  | 2.49             | 1.65              | 0.261                    |
|                             | 90       | 20       | 1.1              | 0.5                           | 35.1                       | 23.3                   | 7 100                                   | 8 500    | <b>6210N</b>             | <b>6210NR</b>              | 96.5                                  | 3.28             | 2.41              | 0.463                    |
|                             | 110      | 27       | 2                | 0.5                           | 62.0                       | 38.3                   | 6 100                                   | 7 300    | <b>6310N</b>             | <b>6310NR</b>              | 116.6                                 | 3.28             | 2.41              | 1.07                     |
| <b>55</b>                   | 90       | 18       | 1.1              | 0.5                           | 28.3                       | 21.2                   | 7 600                                   | 8 900    | <b>6011N</b>             | <b>6011NR</b>              | 96.5                                  | 2.87             | 2.41              | 0.385                    |
|                             | 100      | 21       | 1.5              | 0.5                           | 43.4                       | 29.4                   | 6 300                                   | 7 600    | <b>6211N</b>             | <b>6211NR</b>              | 106.5                                 | 3.28             | 2.41              | 0.607                    |
|                             | 120      | 29       | 2                | 0.5                           | 71.6                       | 45.0                   | 5 600                                   | 6 700    | <b>6311N</b>             | <b>6311NR</b>              | 129.7                                 | 4.06             | 2.77              | 1.37                     |
| <b>60</b>                   | 95       | 18       | 1.1              | 0.5                           | 29.4                       | 23.2                   | 7 100                                   | 8 400    | <b>6012N</b>             | <b>6012NR</b>              | 101.6                                 | 2.87             | 2.41              | 0.415                    |
|                             | 110      | 22       | 1.5              | 0.5                           | 52.4                       | 36.2                   | 5 700                                   | 6 900    | <b>6212N</b>             | <b>6212NR</b>              | 116.6                                 | 3.28             | 2.41              | 0.783                    |
|                             | 130      | 31       | 2.1              | 0.5                           | 81.9                       | 52.2                   | 5 200                                   | 6 200    | <b>6312N</b>             | <b>6312NR</b>              | 139.7                                 | 4.06             | 2.77              | 1.70                     |
| <b>65</b>                   | 100      | 18       | 1.1              | 0.5                           | 30.5                       | 25.2                   | 6 600                                   | 7 800    | <b>6013N</b>             | <b>6013NR</b>              | 106.5                                 | 2.87             | 2.41              | 0.435                    |
|                             | 120      | 23       | 1.5              | 0.5                           | 57.2                       | 40.1                   | 5 400                                   | 6 400    | <b>6213N</b>             | <b>6213NR</b>              | 129.7                                 | 4.06             | 2.77              | 0.990                    |
|                             | 140      | 33       | 2.1              | 0.5                           | 92.7                       | 59.9                   | 4 800                                   | 5 800    | <b>6313N</b>             | <b>6313NR</b>              | 149.7                                 | 4.9              | 2.77              | 2.08                     |
| <b>70</b>                   | 110      | 20       | 1.1              | 0.5                           | 38.1                       | 30.9                   | 6 100                                   | 7 200    | <b>6014N</b>             | <b>6014NR</b>              | 116.6                                 | 2.87             | 2.41              | 0.602                    |
|                             | 125      | 24       | 1.5              | 0.5                           | 62.2                       | 44.1                   | 5 100                                   | 6 100    | <b>6214N</b>             | <b>6214NR</b>              | 134.7                                 | 4.06             | 2.77              | 1.07                     |
|                             | 150      | 35       | 2.1              | 0.5                           | 104                        | 68.2                   | 4 500                                   | 5 400    | <b>6314N</b>             | <b>6314NR</b>              | 159.7                                 | 4.9              | 2.77              | 2.52                     |
| <b>75</b>                   | 115      | 20       | 1.1              | 0.5                           | 39.6                       | 33.5                   | 5 700                                   | 6 800    | <b>6015N</b>             | <b>6015NR</b>              | 121.6                                 | 2.87             | 2.41              | 0.638                    |
|                             | 130      | 25       | 1.5              | 0.5                           | 67.4                       | 48.3                   | 4 800                                   | 5 800    | <b>6215N</b>             | <b>6215NR</b>              | 139.7                                 | 4.06             | 2.77              | 1.18                     |
|                             | 160      | 37       | 2.1              | 0.5                           | 113                        | 77.2                   | 4 200                                   | 5 000    | <b>6315N</b>             | <b>6315NR</b>              | 169.7                                 | 4.9              | 2.77              | 3.02                     |
| <b>80</b>                   | 125      | 22       | 1.1              | 0.5                           | 47.6                       | 39.8                   | 5 300                                   | 6 300    | <b>6016N</b>             | <b>6016NR</b>              | 134.7                                 | 2.87             | 2.77              | 0.850                    |
|                             | 140      | 26       | 2                | 0.5                           | 72.7                       | 53.0                   | 4 500                                   | 5 400    | <b>6216N</b>             | <b>6216NR</b>              | 149.7                                 | 4.9              | 2.77              | 1.40                     |
|                             | 170      | 39       | 2.1              | 0.5                           | 123                        | 86.7                   | 3 900                                   | 4 700    | <b>6316N</b>             | <b>6316NR</b>              | 182.9                                 | 5.69             | 3.05              | 3.59                     |
| <b>85</b>                   | 130      | 22       | 1.1              | 0.5                           | 49.5                       | 43.1                   | 5 000                                   | 5 900    | <b>6017N</b>             | <b>6017NR</b>              | 139.7                                 | 2.87             | 2.77              | 0.890                    |
|                             | 150      | 28       | 2                | 0.5                           | 84.0                       | 61.9                   | 4 200                                   | 5 000    | <b>6217N</b>             | <b>6217NR</b>              | 159.7                                 | 4.9              | 2.77              | 1.79                     |
|                             | 180      | 41       | 3                | 0.5                           | 133                        | 96.8                   | 3 700                                   | 4 400    | <b>6317N</b>             | <b>6317NR</b>              | 192.9                                 | 5.69             | 3.05              | 4.23                     |
| <b>90</b>                   | 140      | 24       | 1.5              | 0.5                           | 58.2                       | 49.7                   | 4 700                                   | 5 600    | <b>6018N</b>             | <b>6018NR</b>              | 149.7                                 | 3.71             | 2.77              | 1.16                     |
|                             | 160      | 30       | 2                | 0.5                           | 96.1                       | 71.5                   | 3 900                                   | 4 700    | <b>6218N</b>             | <b>6218NR</b>              | 169.7                                 | 4.9              | 2.77              | 2.15                     |
|                             | 190      | 43       | 3                | 0.5                           | 143                        | 107                    | 3 500                                   | 4 200    | <b>6318N</b>             | <b>6318NR</b>              | 202.9                                 | 5.69             | 3.05              | 4.91                     |
| <b>95</b>                   | 145      | 24       | 1.5              | 0.5                           | 60.4                       | 53.9                   | 4 400                                   | 5 200    | <b>6019N</b>             | <b>6019NR</b>              | 154.7                                 | 3.71             | 2.77              | 1.21                     |
|                             | 170      | 32       | 2.1              | 0.5                           | 109                        | 81.9                   | 3 700                                   | 4 400    | <b>6219N</b>             | <b>6219NR</b>              | 182.9                                 | 5.69             | 3.05              | 2.62                     |
|                             | 200      | 45       | 3                | 0.5                           | 153                        | 119                    | 3 300                                   | 4 000    | <b>6319N</b>             | <b>6319NR</b>              | 212.9                                 | 5.69             | 3.05              | 5.67                     |
| <b>100</b>                  | 150      | 24       | 1.5              | 0.5                           | 60.2                       | 54.2                   | 4 300                                   | 5 100    | <b>6020N</b>             | <b>6020NR</b>              | 159.7                                 | 3.71             | 2.77              | 1.25                     |
|                             | 180      | 34       | 2.1              | 0.5                           | 122                        | 93.1                   | 3 500                                   | 4 200    | <b>6220N</b>             | <b>6220NR</b>              | 192.9                                 | 5.69             | 3.05              | 3.14                     |
| <b>105</b>                  | 160      | 26       | 2                | 0.5                           | 72.3                       | 65.8                   | 4 000                                   | 4 700    | <b>6021N</b>             | <b>6021NR</b>              | 169.7                                 | 3.71             | 2.77              | 1.59                     |
|                             | 190      | 36       | 2.1              | 0.5                           | 133                        | 105                    | 3 300                                   | 3 900    | <b>6221N</b>             | <b>6221NR</b>              | 202.9                                 | 5.69             | 3.05              | 3.70                     |
| <b>110</b>                  | 170      | 28       | 2                | 0.5                           | 82.0                       | 73.0                   | 3 800                                   | 4 500    | <b>6022N</b>             | <b>6022NR</b>              | 182.9                                 | 3.71             | 3.05              | 1.96                     |
|                             | 200      | 38       | 2.1              | 0.5                           | 144                        | 117                    | 3 100                                   | 3 700    | <b>6222N</b>             | <b>6222NR</b>              | 212.9                                 | 5.69             | 3.05              | 4.36                     |
| <b>120</b>                  | 180      | 28       | 2                | 0.5                           | 85.0                       | 79.3                   | 3 600                                   | 4 200    | <b>6024N</b>             | <b>6024NR</b>              | 192.9                                 | 3.71             | 3.05              | 2.07                     |
| <b>130</b>                  | 200      | 33       | 2                | 0.5                           | 106                        | 101                    | 3 200                                   | 3 800    | <b>6026N</b>             | <b>6026NR</b>              | 212.9                                 | 5.69             | 3.05              | 3.16                     |

Remark) Standard cage types used for the above bearings are described earlier in this section.

# Extra-small ball bearings, miniature ball bearings

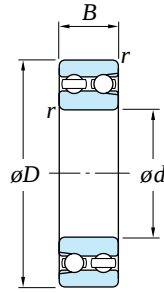
$d$  3 – 9 mm



| Boundary dimensions (mm) |     |     |       |             |              | Basic load ratings (kN) |          | Limiting speeds (min <sup>-1</sup> )                                                 |        |                                                                                    |  | Bearing No.   |                   |                 | (Refer.) Mass (g) |
|--------------------------|-----|-----|-------|-------------|--------------|-------------------------|----------|--------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|--|---------------|-------------------|-----------------|-------------------|
| $d$                      | $D$ | $B$ | $B_1$ | $r_{\min.}$ | $r_{1\min.}$ | $C_r$                   | $C_{0r}$ | Grease lub.                                                                          |        | Oil lub.                                                                           |  | Open          | Shielded ZZ, ZZL  | Sealed 2RS      |                   |
|                          |     |     |       |             |              |                         |          | $\left[ \begin{smallmatrix} \text{Open} \\ \text{ZZ, ZZL} \end{smallmatrix} \right]$ | (2RS)  | $\left[ \begin{smallmatrix} \text{Open} \\ \text{Z, ZL} \end{smallmatrix} \right]$ |  |               |                   |                 |                   |
| <b>3</b>                 | 8   | 3   | 4     | 0.15        | 0.15         | 0.55                    | 0.17     | 64 000                                                                               | –      | 76 000                                                                             |  | <b>693</b>    | <b>W693 ZZ</b>    | –               | 0.6               |
|                          | 10  | 4   | 4     | 0.15        | 0.15         | 0.64                    | 0.23     | 52 000                                                                               | 44 000 | 63 000                                                                             |  | <b>623</b>    | <b>623 ZZ</b>     | <b>623 2RS</b>  | 1.6               |
| <b>4</b>                 | 11  | 4   | 4     | 0.15        | 0.15         | 0.96                    | 0.35     | 54 000                                                                               | 44 000 | 65 000                                                                             |  | <b>694</b>    | <b>694 ZZ</b>     | <b>694 2RS</b>  | 1.8               |
|                          | 12  | 4   | 4     | 0.2         | 0.2          | 0.97                    | 0.36     | 53 000                                                                               | –      | 63 000                                                                             |  | <b>604</b>    | <b>604 ZZ</b>     | –               | 2.1               |
|                          | 13  | 5   | 5     | 0.2         | 0.2          | 1.30                    | 0.49     | 44 000                                                                               | 39 000 | 54 000                                                                             |  | <b>624</b>    | <b>624 ZZ</b>     | <b>624 2RS</b>  | 2.9               |
|                          | 16  | 5   | 5     | 0.3         | 0.3          | 1.75                    | 0.67     | 40 000                                                                               | –      | 49 000                                                                             |  | <b>634</b>    | <b>634 ZZ</b>     | –               | 5.3               |
| <b>5</b>                 | 8   | 2   | 2.5   | 0.08        | 0.05         | 0.26                    | 0.12     | 59 000                                                                               | –      | 70 000                                                                             |  | <b>ML5008</b> | <b>WML5008 ZZ</b> | –               | 0.3               |
|                          | 9   | 2.5 | 3     | 0.1         | 0.08         | 0.47                    | 0.19     | 56 000                                                                               | –      | 67 000                                                                             |  | <b>ML5009</b> | <b>WML5009 ZZ</b> | –               | 0.5               |
|                          | 10  | 3   | 4     | 0.1         | 0.1          | 0.50                    | 0.21     | 55 000                                                                               | –      | 65 000                                                                             |  | <b>ML5010</b> | <b>WML5010 ZZ</b> | –               | 0.9               |
|                          | 11  | 3   | 5     | 0.15        | 0.15         | 0.97                    | 0.36     | 53 000                                                                               | –      | 63 000                                                                             |  | <b>685</b>    | <b>W685 ZZ</b>    | –               | 1.0               |
|                          | 13  | 4   | 4     | 0.2         | 0.2          | 1.10                    | 0.43     | 50 000                                                                               | 42 000 | 60 000                                                                             |  | <b>695</b>    | <b>695 ZZ</b>     | <b>695 2RS</b>  | 2.2               |
|                          | 16  | 5   | 5     | 0.3         | 0.3          | 1.75                    | 0.67     | 40 000                                                                               | 33 000 | 49 000                                                                             |  | <b>625</b>    | <b>625 ZZ</b>     | <b>625 2RS</b>  | 5.0               |
|                          | 19  | 6   | 6     | 0.3         | 0.3          | 2.60                    | 1.05     | 35 000                                                                               | 27 000 | 43 000                                                                             |  | <b>635</b>    | <b>635 ZZ</b>     | <b>635 2RS</b>  | 8.5               |
| <b>6</b>                 | 13  | 3.5 | 5     | 0.15        | 0.15         | 1.10                    | 0.44     | 48 000                                                                               | 36 000 | 57 000                                                                             |  | <b>686</b>    | <b>W686 ZZ</b>    | <b>W686 2RS</b> | 1.8               |
|                          | 15  | 5   | 5     | 0.2         | 0.2          | 1.75                    | 0.67     | 45 000                                                                               | 32 000 | 54 000                                                                             |  | <b>696</b>    | <b>696 ZZ</b>     | <b>696 2RS</b>  | 3.9               |
|                          | 17  | 6   | 6     | 0.3         | 0.3          | 1.95                    | 0.74     | 43 000                                                                               | –      | 51 000                                                                             |  | <b>606</b>    | <b>606 ZZ</b>     | –               | 5.8               |
|                          | 19  | 6   | 6     | 0.3         | 0.3          | 2.60                    | 1.05     | 35 000                                                                               | 27 000 | 43 000                                                                             |  | <b>626</b>    | <b>626 ZZ</b>     | <b>626 2RS</b>  | 8.1               |
| <b>7</b>                 | 14  | 3.5 | 5     | 0.15        | 0.15         | 1.15                    | 0.51     | 45 000                                                                               | –      | 54 000                                                                             |  | <b>687</b>    | <b>W687 ZZ</b>    | –               | 2.0               |
|                          | 19  | 6   | 6     | 0.3         | 0.3          | 2.60                    | 1.05     | 40 000                                                                               | 27 000 | 47 000                                                                             |  | <b>607</b>    | <b>607 ZZ</b>     | <b>607 2RS</b>  | 7.6               |
|                          | 22  | 7   | 7     | 0.3         | 0.3          | 3.30                    | 1.35     | 31 000                                                                               | 23 000 | 37 000                                                                             |  | <b>627</b>    | <b>627 ZZ</b>     | <b>627 2RS</b>  | 13                |
| <b>8</b>                 | 16  | 4   | 5     | 0.2         | 0.2          | 1.60                    | 0.71     | 42 000                                                                               | 28 000 | 50 000                                                                             |  | <b>688</b>    | <b>W688 ZZ</b>    | <b>W688 2RS</b> | 3.2               |
|                          | 19  | 6   | 6     | 0.3         | 0.3          | 2.25                    | 0.91     | 39 000                                                                               | 27 000 | 46 000                                                                             |  | <b>698</b>    | <b>698 ZZ</b>     | <b>698 2RS</b>  | 7.2               |
|                          | 22  | 7   | 7     | 0.3         | 0.3          | 3.30                    | 1.35     | 34 000                                                                               | 23 000 | 41 000                                                                             |  | <b>608</b>    | <b>608 ZZ</b>     | <b>608 2RS</b>  | 12                |
|                          | 24  | 8   | 8     | 0.3         | 0.3          | 3.35                    | 1.40     | 28 000                                                                               | 22 000 | 35 000                                                                             |  | <b>628</b>    | <b>628 ZZ</b>     | <b>628 2RS</b>  | 18                |
|                          | 28  | 9   | 9     | 0.3         | 0.3          | 4.55                    | 1.95     | 26 000                                                                               | –      | 32 000                                                                             |  | <b>638</b>    | <b>638 ZZ</b>     | –               | 29                |
|                          |     |     |       |             |              |                         |          |                                                                                      |        |                                                                                    |  |               |                   |                 |                   |
| <b>9</b>                 | 17  | 4   | 5     | 0.2         | 0.2          | 1.35                    | 0.66     | 39 000                                                                               | –      | 46 000                                                                             |  | <b>689</b>    | <b>W689 ZZ</b>    | –               | 3.5               |
|                          | 20  | 6   | 6     | 0.3         | 0.3          | 2.45                    | 1.05     | 35 000                                                                               | 25 000 | 42 000                                                                             |  | <b>699</b>    | <b>699 ZZ</b>     | <b>699 2RS</b>  | 7.5               |
|                          | 24  | 7   | 7     | 0.3         | 0.3          | 3.35                    | 1.40     | 33 000                                                                               | 22 000 | 40 000                                                                             |  | <b>609</b>    | <b>609 ZZ</b>     | <b>609 2RS</b>  | 15                |
|                          | 26  | 8   | 8     | 0.6         | 0.6          | 4.55                    | 1.95     | 27 000                                                                               | 19 000 | 33 000                                                                             |  | <b>629</b>    | <b>629 ZZ</b>     | <b>629 2RS</b>  | 20                |

# Double-row deep groove ball bearings

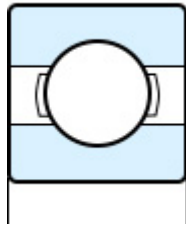
$d$  15 – 75 mm



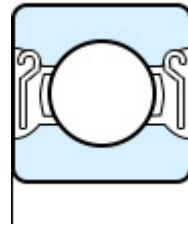
| Boundary dimensions<br>(mm) |     |     |             | Basic load ratings<br>(kN) |          | Limiting speeds<br>(min <sup>-1</sup> ) |          | Bearing No. | (Refer.)<br>Mass<br>(kg) |
|-----------------------------|-----|-----|-------------|----------------------------|----------|-----------------------------------------|----------|-------------|--------------------------|
| $d$                         | $D$ | $B$ | $r_{\min.}$ | $C_r$                      | $C_{0r}$ | Grease lub.                             | Oil lub. |             |                          |
| 15                          | 35  | 14  | 0.6         | 9.75                       | 9.00     | 12 000                                  | 16 000   | <b>4202</b> | 0.071                    |
| 17                          | 40  | 16  | 0.6         | 11.7                       | 10.4     | 11 000                                  | 14 000   | <b>4203</b> | 0.106                    |
| 20                          | 47  | 18  | 1           | 16.4                       | 16.0     | 9 000                                   | 12 000   | <b>4204</b> | 0.165                    |
|                             | 52  | 21  | 1.1         | 19.5                       | 17.0     | 8 300                                   | 11 000   | <b>4304</b> | 0.227                    |
| 25                          | 52  | 18  | 1           | 16.3                       | 16.9     | 7 500                                   | 9 900    | <b>4205</b> | 0.189                    |
|                             | 62  | 24  | 1.1         | 26.3                       | 25.7     | 6 700                                   | 9 000    | <b>4305</b> | 0.365                    |
| 30                          | 62  | 20  | 1           | 22.0                       | 24.7     | 6 400                                   | 8 500    | <b>4206</b> | 0.298                    |
|                             | 72  | 27  | 1.1         | 35.5                       | 35.9     | 5 700                                   | 7 600    | <b>4306</b> | 0.542                    |
| 35                          | 72  | 23  | 1.1         | 26.4                       | 30.7     | 5 600                                   | 7 400    | <b>4207</b> | 0.460                    |
|                             | 80  | 31  | 1.5         | 40.6                       | 41.8     | 5 200                                   | 7 000    | <b>4307</b> | 0.752                    |
| 40                          | 80  | 23  | 1.1         | 33.7                       | 42.4     | 4 700                                   | 6 300    | <b>4208</b> | 0.558                    |
|                             | 90  | 33  | 1.5         | 46.0                       | 48.8     | 4 600                                   | 6 100    | <b>4308</b> | 1.01                     |
| 45                          | 85  | 23  | 1.1         | 31.9                       | 43.9     | 4 600                                   | 6 100    | <b>4209</b> | 0.605                    |
|                             | 100 | 36  | 1.5         | 57.6                       | 62.4     | 4 100                                   | 5 500    | <b>4309</b> | 1.35                     |
| 50                          | 90  | 23  | 1.1         | 31.4                       | 44.6     | 4 200                                   | 5 600    | <b>4210</b> | 0.651                    |
|                             | 110 | 40  | 2           | 70.4                       | 77.7     | 3 700                                   | 5 000    | <b>4310</b> | 1.80                     |
| 55                          | 100 | 25  | 1.5         | 37.2                       | 54.1     | 3 800                                   | 5 000    | <b>4211</b> | 0.882                    |
|                             | 120 | 43  | 2           | 84.2                       | 94.4     | 3 400                                   | 4 600    | <b>4311</b> | 2.29                     |
| 60                          | 110 | 28  | 1.5         | 47.9                       | 67.6     | 3 500                                   | 4 700    | <b>4212</b> | 1.20                     |
|                             | 130 | 46  | 2.1         | 99.2                       | 113      | 3 100                                   | 4 200    | <b>4312</b> | 2.87                     |
| 65                          | 120 | 31  | 1.5         | 54.7                       | 78.5     | 3 200                                   | 4 300    | <b>4213</b> | 1.59                     |
|                             | 140 | 48  | 2.1         | 107                        | 124      | 2 900                                   | 3 900    | <b>4313</b> | 3.46                     |
| 70                          | 125 | 31  | 1.5         | 62.1                       | 89.8     | 3 100                                   | 4 100    | <b>4214</b> | 1.68                     |
|                             | 150 | 51  | 2.1         | 115                        | 136      | 2 700                                   | 3 600    | <b>4314</b> | 4.21                     |
| 75                          | 130 | 31  | 1.5         | 61.6                       | 90.7     | 2 900                                   | 3 900    | <b>4215</b> | 1.77                     |
|                             | 160 | 55  | 2.1         | 132                        | 158      | 2 500                                   | 3 400    | <b>4315</b> | 5.15                     |

With its wide dimensional scope, the deep groove ball bearing is the most commonly used rolling bearing and is capable of simultaneously receiving a radial load and bidirectional axial load to a certain extent.

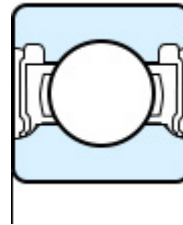
Open type



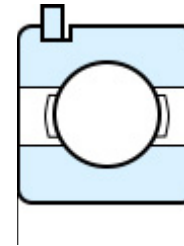
Shielded



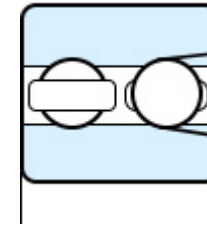
Sealed



Locating snap ring



Double-row



ZZ / 2RU / 2RS / 2RD

NR

680 / 690 / 600 / 620 / 630 /

(ML)...Extra-small, miniature/ 6800 / 6900 / 16000 / 6000 / 6200 / 6300 / 6400

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6700</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6800</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6900</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6000</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6200</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6300</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6701</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6801</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6901</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16001</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6001</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6201</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6301</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6702</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6802</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6902</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16002</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6002</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6202</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6302</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6703</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6803</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6903</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16003</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6003</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6203</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6303</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6303R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6403</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6704</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6804</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6904</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16004</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6004</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6004R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6204</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6204R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6304</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6304R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6404</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/22</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>62/22</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>63/22</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6705</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6805</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6905</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16005</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6005</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6205</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6205R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6305</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6305R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6405</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/28</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>62/28</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>63/28</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6706</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6806</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6906</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16006</b> | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6006</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6206</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6206R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6306</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6306R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6406</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/32</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>62/32</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>63/32</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6807</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6907</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16007</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6007</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6207</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6207R</b> | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6307</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6307R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6407</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6808</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6908</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16008</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6008</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6208</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6308</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6408</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6809</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6909</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16009</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6009</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6209</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6309</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6409</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6810</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6910</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16010</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6010</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6210</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6210R</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6310</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6410</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6811</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6911</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16011</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6011</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6211</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6311</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6411</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6812</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6912</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16012</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6012</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6212</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6312</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6412</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6813</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6913</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16013</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6013</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6213</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6313</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6413</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6814</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6914</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16014</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6014</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6214</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6314</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6414</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6815</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6915</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16015</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6015</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6215</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6315</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6415</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6816</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6916</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16016</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6016</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6216</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6316</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6416</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6817</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6917</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16017</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6017</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6217</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6317</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6417</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6818</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6918</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16018</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6018</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6218</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6318</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6418</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6919</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16019</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6019</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6219</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6319</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6820</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6920</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16020</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6020</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6220</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6320</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6921</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16021</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6021</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6221</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6321</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6822</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6922</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16022</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6022</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6222</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6322</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6824</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6924</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>16024</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6024</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6224</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6324</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6826</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6926</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16026</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6026</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6226</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6326</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6828</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6928</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16028</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6028</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6228</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6328</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6830</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6930</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16030</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6030</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6230</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6330</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6832</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6932</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16032</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6032</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6232</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6332</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6834</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6934</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>16034</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6034</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6234</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6334</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6836</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6936</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16036</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6036</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6236</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6336</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6838</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6938</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16038</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6038</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6238</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6338</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6840</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6940</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16040</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6040</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6240</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6340</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6844</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6944</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16044</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6044</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6244</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6344</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6848</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6948</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>16048</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6048</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6248</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6348</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6852</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6952</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16052</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6052</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6252</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6352</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6856</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6956</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16056</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6056</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6256</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>6356</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6860</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6960</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16060</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6060</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6260</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6360</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6864</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6964</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16064</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6064</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6264</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6364</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6868</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6968</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>16068</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6068</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6268</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6368</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6872</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6972</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16072</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6072</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6272</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6876</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6976</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6076</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6276</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6880</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6980</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.  | Classification[1]         | Classification[2] | Classification[3] |
|--------------|---------------------------|-------------------|-------------------|
| <b>16080</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6080</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6280</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6884</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6984</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16084</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6084</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6888</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6988</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16088</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6088</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6892</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>6992</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>16092</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>6092</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.    | Classification[1]         | Classification[2] | Classification[3] |
|----------------|---------------------------|-------------------|-------------------|
| <b>6896</b>    | Deep groove ball bearings | Single-row        | Open type         |
| <b>6996</b>    | Deep groove ball bearings | Single-row        | Open type         |
| <b>16096</b>   | Deep groove ball bearings | Single-row        | Open type         |
| <b>6096</b>    | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/500</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/500</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>160/500</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/500</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/530</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/530</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/530</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/560</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/560</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/560</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/600</b>  | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.   | Classification[1]         | Classification[2] | Classification[3] |
|---------------|---------------------------|-------------------|-------------------|
| <b>69/600</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/600</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/630</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/630</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/630</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/670</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/670</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/670</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/710</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/710</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/710</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/750</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/750</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/750</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/800</b> | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.    | Classification[1]         | Classification[2] | Classification[3] |
|----------------|---------------------------|-------------------|-------------------|
| <b>69/800</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>60/800</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/850</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/850</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/900</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/900</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/950</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>69/950</b>  | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1000</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1060</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1120</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1180</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1250</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1320</b> | Deep groove ball bearings | Single-row        | Open type         |
| <b>68/1400</b> | Deep groove ball bearings | Single-row        | Open type         |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6800 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6900 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6000 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6200 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6300 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6701 ZZX</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6801 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6901 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6001 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6201 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6301 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6702 ZZX</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6802 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6902 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6002 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6202 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6302 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6703 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6803 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6903 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6003 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6203 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6303 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6704 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6804 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6904 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6004 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6204 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6304 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/22 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>62/22 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/22 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6705 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6805 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6905 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6005 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6205 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6305 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/28 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/28 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/28 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6706 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6806 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6906 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6006 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6206 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6306 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/32 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/32 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/32 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6807 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6907 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6007 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6207 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6307 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6808 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6908 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6008 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6208 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6308 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.    | Classification[1]         | Classification[2] | Classification[3]    |
|----------------|---------------------------|-------------------|----------------------|
| <b>6809 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6909 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6009 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6209 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6309 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6810 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6910 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6010 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6210 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6310 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6811 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6911 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6011 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6211 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6311 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.    | Classification[1]         | Classification[2] | Classification[3]    |
|----------------|---------------------------|-------------------|----------------------|
| <b>6812 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6912 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6012 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6212 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6312 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6813 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6913 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6013 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6213 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6313 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6814 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6914 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6014 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6214 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6314 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6815 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6915 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6015 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6215 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6315 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6816 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6916 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6016 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6216 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6316 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6817 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6917 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6017 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6217 ZZ</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6317 ZZX</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6818 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6918 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6018 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6218 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6318 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6919 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6019 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6219 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6319 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6820 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6920-1 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6020 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6220 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6320 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6921-1 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6021 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6221 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6321 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6822 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6922 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6022 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6222 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6322 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6824 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6924 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6024 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6224 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6324 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6826 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6926-1 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6026 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6226 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6326 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6828 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6928-1 ZZ</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6028 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6228 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6328 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6930 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6030 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6230 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6832 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6032 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6232 ZZX</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6834 ZZ</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.       | Classification[1]         | Classification[2] | Classification[3]    |
|-------------------|---------------------------|-------------------|----------------------|
| <b>6034 ZZX</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6234 ZZX</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6836 ZZ</b>    | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6036 ZZX</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6236-1 ZZX</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6838 ZZ</b>    | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6038 ZZX</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6040 ZZX</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6240-1 ZZX</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6044 ZZX</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6800 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6900 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6000 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6200 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6300 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6701 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6801 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6901 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6001 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6201 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6301 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6702 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6802 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6902 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6002 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6202 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6302 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6703 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6803 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6903 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6003 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6203 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6303 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6704 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6804 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6904 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6004 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6204 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6304 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/22 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>62/22 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/22 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6705 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6805 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6905 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6005 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6205 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6305 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/28 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/28 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/28 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6706 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6806 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6906 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6006 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6206 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6306 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/32 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/32 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/32 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6807 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6907 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6007 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6207 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6307 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6808 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6908 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6008 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6208 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6308 2RU</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6809 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6909 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6009 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6209 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6309 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6810 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6910 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6010 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6210 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6310 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6811 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6911 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6011 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6211 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6311 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6812 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6912 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6012 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6212 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6312 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6813 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6913 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6013 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6213 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6313 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6814 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6914 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6014 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6214 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6314 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6815 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6915 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6015 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6215 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6315 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6816 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6916 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6016 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6216 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6316 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6817 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6917 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6017 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6217 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6317 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.       | Classification[1]         | Classification[2] | Classification[3]    |
|-------------------|---------------------------|-------------------|----------------------|
| <b>6818 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6918 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6018 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6218 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6318 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6919 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6019 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6219 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6319 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6820 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6920-1 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6020 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6220 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6320 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6921-1 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.       | Classification[1]         | Classification[2] | Classification[3]    |
|-------------------|---------------------------|-------------------|----------------------|
| <b>6021 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6221 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6321 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6822 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6922 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6022 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6222 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6322 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6824 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6924 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6024 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6224 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6826 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6926-1 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6026 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.       | Classification[1]         | Classification[2] | Classification[3]    |
|-------------------|---------------------------|-------------------|----------------------|
| <b>6226 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6928-1 2RU</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6028 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6228 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6930 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6030 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6032 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6034 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6036 2RU</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6000 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6200 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6300 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6801 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6901 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6001 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6201 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6301 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6902 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6002 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6202 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6302 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6903 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6003 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6203 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6303 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6904 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6004 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6204 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6304 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/22 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/22 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/22 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6905 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6005 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6205 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6305 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/28 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/28 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/28 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6906 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6006 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6206 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6306 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/32 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/32 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/32 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6907 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6007 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6207 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6307 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6808 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6908 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6008 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6208 2RD</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6308 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6809 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6909 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6009 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6209 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6309 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6810 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6010 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6210 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6310 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6811 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6911 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6011 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6211 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6812 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6212 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6813 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6913 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6814 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6914 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6815 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6816 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6916 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6817 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6917 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6818 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6918 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6919 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6820 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6822 2RD</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No. | Classification[1]         | Classification[2] | Classification[3]    |
|-------------|---------------------------|-------------------|----------------------|
| 6828 2RD    | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| 6830 2RD    | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| 6832 2RD    | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| 6836 2RD    | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6800 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6900 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6000 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6200 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6300 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6701 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6801 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6901 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6001 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6201 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6301 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6702 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6802 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6902 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6002 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6202 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6302 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6703 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6803 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6903 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6003 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6203 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6303 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6704 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6804 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6904 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6004 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6204 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6304 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/22 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.       | Classification[1]         | Classification[2] | Classification[3]    |
|-------------------|---------------------------|-------------------|----------------------|
| <b>62/22 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/22 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6705 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6805 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6905 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6005 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6205 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6305 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/28 2RS1</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/28 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/28 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6706 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6806 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6906 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6006 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.      | Classification[1]         | Classification[2] | Classification[3]    |
|------------------|---------------------------|-------------------|----------------------|
| <b>6206 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6306 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>60/32 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>62/32 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>63/32 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6807 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6907 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6007 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6207 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6307 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6808 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6908 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6008 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6208 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6308 2RS</b>  | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6809 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6909 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6009 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6209 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6309 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6810 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6010 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6210 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6310 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6911 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6011 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6211 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6311 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6012 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6212 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| <b>Bearing No.</b> | <b>Classification[1]</b>  | <b>Classification[2]</b> | <b>Classification[3]</b> |
|--------------------|---------------------------|--------------------------|--------------------------|
| <b>6312 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6913 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6013 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6213 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6313 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6914 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6014 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6214 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6314 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6015 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6215 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6315 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6916 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6016 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |
| <b>6216 2RS</b>    | Deep groove ball bearings | Single-row               | Shielded/sealed type     |

| Bearing No.     | Classification[1]         | Classification[2] | Classification[3]    |
|-----------------|---------------------------|-------------------|----------------------|
| <b>6316 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6917 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6017 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6217 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6317 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6918 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6018 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6218 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6318 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6919 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6019 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6219 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6319 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6020 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6220 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.       | Classification[1]         | Classification[2] | Classification[3]    |
|-------------------|---------------------------|-------------------|----------------------|
| <b>6320 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6921-1 2RS</b> | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6021 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6221 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6321 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6022 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6222 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6322 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6024 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6224 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6026 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6226 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6028 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6228 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| <b>6930 2RS</b>   | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No. | Classification[1]         | Classification[2] | Classification[3]    |
|-------------|---------------------------|-------------------|----------------------|
| 6030 2RS    | Deep groove ball bearings | Single-row        | Shielded/sealed type |
| 6032 2RS    | Deep groove ball bearings | Single-row        | Shielded/sealed type |

| Bearing No.   | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------|---------------------------|--------------------------------------|-------------------|
| <b>681</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML1003</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>691</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML1204</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>68/1.5</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>69/1.5</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML1506</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>682</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML2005</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>692</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML2006</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML2007</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>602</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>68/2.5</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>69/2.5</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.      | Classification[1]         | Classification[2]                    | Classification[3] |
|------------------|---------------------------|--------------------------------------|-------------------|
| <b>ML2508/1B</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML2508</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML3006</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>683</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML3008</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>693</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>603</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>623</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>633</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML4007</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML4008</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>684</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML4010</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>694</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>604</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.   | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------|---------------------------|--------------------------------------|-------------------|
| <b>624</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>634</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML5008</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML5009</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML5010</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>685</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>695</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>605</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>625</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>635</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML6010</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML6012</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>686</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>696</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>606</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.   | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------|---------------------------|--------------------------------------|-------------------|
| <b>626</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML6019</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>636</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML7011</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML7013</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>687</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>697</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>607</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>627</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML7022</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>637</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML8012</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML8014</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>688</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>698</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No. | Classification[1]         | Classification[2]                    | Classification[3] |
|-------------|---------------------------|--------------------------------------|-------------------|
| <b>608</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>628</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>638</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>689</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>699</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>609</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>629</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>639</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.        | Classification[1]         | Classification[2]                    | Classification[3] |
|--------------------|---------------------------|--------------------------------------|-------------------|
| <b>W68/1.5 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W69/1.5 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML1506 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W682 ZZX</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML2005 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W692 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML2006 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML2007 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W602 ZZX</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W68/2.5 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W69/2.5 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML2508 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML3006 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W683 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W693 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.       | Classification[1]         | Classification[2]                    | Classification[3] |
|-------------------|---------------------------|--------------------------------------|-------------------|
| <b>W603 ZZX</b>   | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>623 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>633 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML4007 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML4008 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W684 ZZ</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML4010 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>694 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>604 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>624 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>634 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML5008 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML5009 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML5010 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W685 ZZ</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.        | Classification[1]         | Classification[2]                    | Classification[3] |
|--------------------|---------------------------|--------------------------------------|-------------------|
| <b>695 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>605 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>625 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>635 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML6010 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML6012 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W686 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>696 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>606 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>626 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML6019 ZZ</b>   | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>636 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML7011 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML7013 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W687 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.       | Classification[1]         | Classification[2]                    | Classification[3] |
|-------------------|---------------------------|--------------------------------------|-------------------|
| <b>697 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>607 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>627 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>ML7022 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>637 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML8012 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML8014 ZZ</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W688 ZZ</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>698 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>608 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>628 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>638 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W689 ZZ</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>699 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>609 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No. | Classification[1]         | Classification[2]                    | Classification[3] |
|-------------|---------------------------|--------------------------------------|-------------------|
| 629 ZZ      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| 639 ZZ      | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.     | Classification[1]         | Classification[2]                    | Classification[3] |
|-----------------|---------------------------|--------------------------------------|-------------------|
| <b>694 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>624 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>695 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>625 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>635 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>696 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>606 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>626 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>607 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>627 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W688 2RU</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>608 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>628 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W689 2RU</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>609 2RU</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.     | Classification[1]         | Classification[2]                    | Classification[3] |
|-----------------|---------------------------|--------------------------------------|-------------------|
| <b>695 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>696 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>606 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>626 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>607 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>627 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W688 2RD</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>698 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>608 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>638 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W689 2RD</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>699 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>609 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>629 2RD</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.        | Classification[1]         | Classification[2]                    | Classification[3] |
|--------------------|---------------------------|--------------------------------------|-------------------|
| <b>623 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>694 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>624 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>695 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>625 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>635 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>WML6012 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W686 2RS</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>696 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>626 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>636 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>697 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>607 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>627 2RS</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>W688 2RS</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.    | Classification[1]         | Classification[2]                    | Classification[3] |
|----------------|---------------------------|--------------------------------------|-------------------|
| <b>698 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>608 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>628 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>699 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>609 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |
| <b>629 2RS</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Standard type     |

| Bearing No.       | Classification[1]         | Classification[2]                    | Classification[3] |
|-------------------|---------------------------|--------------------------------------|-------------------|
| <b>F681</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F691</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F68/1.5</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F69/1.5</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF1506</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F682</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF2005</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F692</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF2006</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF2007</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F602</b>       | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F68/2.5</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F69/2.5</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF2508/1B</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF2508</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.    | Classification[1]         | Classification[2]                    | Classification[3] |
|----------------|---------------------------|--------------------------------------|-------------------|
| <b>MLF3006</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F683</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF3008</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F693</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F603</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F623</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF4007</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF4008</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F684</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF4010</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F694</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F604</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F624</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F634</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF5008</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.    | Classification[1]         | Classification[2]                    | Classification[3] |
|----------------|---------------------------|--------------------------------------|-------------------|
| <b>MLF5009</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF5010</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F685</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F695</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F605</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F625</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F635</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF6010</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF6012</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F686</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F696</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F606</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F626</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F636</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF7011</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.    | Classification[1]         | Classification[2]                    | Classification[3] |
|----------------|---------------------------|--------------------------------------|-------------------|
| <b>MLF7013</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F687</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F697</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F607</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F627</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF8012</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>MLF8014</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F688</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F698</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F608</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F689</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F699</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F609</b>    | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.         | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------------|---------------------------|--------------------------------------|-------------------|
| <b>WF68/1.5 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF69/1.5 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF1506 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF682 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF2005 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF692 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF2006 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF2007 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF602 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF68/2.5 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF69/2.5 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF2508 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF3006 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF683 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF693 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.         | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------------|---------------------------|--------------------------------------|-------------------|
| <b>WF603 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F623 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF4007 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF4008 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF684 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF4010 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F694 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F604 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F624 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F634 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF5008 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF5009 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF5010 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF685 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F695 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.         | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------------|---------------------------|--------------------------------------|-------------------|
| <b>F605 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F625 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F635 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF6010 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF6012 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF686 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F696 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F606 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F626 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F636 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF7011 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF7013 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF687 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F697 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F607 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No.         | Classification[1]         | Classification[2]                    | Classification[3] |
|---------------------|---------------------------|--------------------------------------|-------------------|
| <b>F627 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF8012 ZZX</b> | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WMLF8014 ZZ</b>  | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF688 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F698 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F608 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>WF689 ZZ</b>     | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F699 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |
| <b>F609 ZZ</b>      | Deep groove ball bearings | Extra-small, miniature ball bearings | Flanged type      |

| Bearing No. | Classification[1]         | Classification[2] | Classification[3] |
|-------------|---------------------------|-------------------|-------------------|
| 4200        | Deep groove ball bearings | Double-row        |                   |
| 4201        | Deep groove ball bearings | Double-row        |                   |
| 4202        | Deep groove ball bearings | Double-row        |                   |
| 4302        | Deep groove ball bearings | Double-row        |                   |
| 4203        | Deep groove ball bearings | Double-row        |                   |
| 4303        | Deep groove ball bearings | Double-row        |                   |
| 4204        | Deep groove ball bearings | Double-row        |                   |
| 4304        | Deep groove ball bearings | Double-row        |                   |
| 4205        | Deep groove ball bearings | Double-row        |                   |
| 4305        | Deep groove ball bearings | Double-row        |                   |
| 4206        | Deep groove ball bearings | Double-row        |                   |
| 4306        | Deep groove ball bearings | Double-row        |                   |
| 4207        | Deep groove ball bearings | Double-row        |                   |
| 4307        | Deep groove ball bearings | Double-row        |                   |
| 4208        | Deep groove ball bearings | Double-row        |                   |

| Bearing No. | Classification[1]         | Classification[2] | Classification[3] |
|-------------|---------------------------|-------------------|-------------------|
| 4308        | Deep groove ball bearings | Double-row        |                   |
| 4209        | Deep groove ball bearings | Double-row        |                   |
| 4309        | Deep groove ball bearings | Double-row        |                   |
| 4210        | Deep groove ball bearings | Double-row        |                   |
| 4310        | Deep groove ball bearings | Double-row        |                   |
| 4211        | Deep groove ball bearings | Double-row        |                   |
| 4311        | Deep groove ball bearings | Double-row        |                   |
| 4212        | Deep groove ball bearings | Double-row        |                   |
| 4312        | Deep groove ball bearings | Double-row        |                   |
| 4213        | Deep groove ball bearings | Double-row        |                   |
| 4313        | Deep groove ball bearings | Double-row        |                   |
| 4214        | Deep groove ball bearings | Double-row        |                   |
| 4314        | Deep groove ball bearings | Double-row        |                   |
| 4215        | Deep groove ball bearings | Double-row        |                   |
| 4315        | Deep groove ball bearings | Double-row        |                   |

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