



## Ball & Roller Bearings



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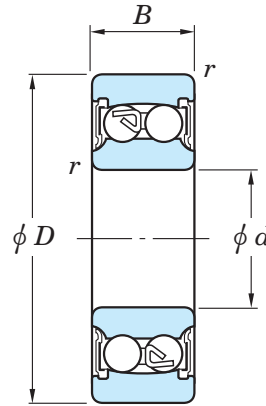
**JTEKT**

JTEKT CORPORATION

CAT. NO. B2001E-3

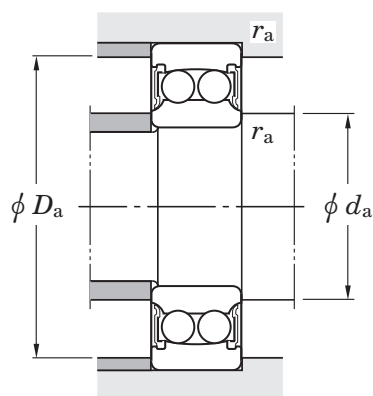
# Self-aligning ball bearings sealed type

$d$  10 ~ 55 mm



| Boundary dimensions<br>(mm) |     |     |             | Basic load ratings<br>(kN) |          | Limiting speed<br>(min <sup>-1</sup> )<br>Grease lub. | Bearing No. |  |
|-----------------------------|-----|-----|-------------|----------------------------|----------|-------------------------------------------------------|-------------|--|
| $d$                         | $D$ | $B$ | $r_{\min.}$ | $C_r$                      | $C_{0r}$ |                                                       |             |  |
| 10                          | 30  | 14  | 0.6         | 5.40                       | 1.20     | 15 000                                                | 2200 2RS    |  |
|                             | 35  | 17  | 0.6         | 7.25                       | 1.60     | 13 000                                                | 2300 2RS    |  |
| 12                          | 32  | 14  | 0.6         | 5.60                       | 1.25     | 14 000                                                | 2201 2RS    |  |
|                             | 37  | 17  | 1           | 9.40                       | 2.15     | 12 000                                                | 2301 2RS    |  |
| 15                          | 35  | 14  | 0.6         | 7.45                       | 1.75     | 12 000                                                | 2202 2RS    |  |
|                             | 42  | 17  | 1           | 9.55                       | 2.30     | 11 000                                                | 2302 2RS    |  |
| 17                          | 40  | 16  | 0.6         | 7.90                       | 2.00     | 11 000                                                | 2203 2RS    |  |
|                             | 47  | 19  | 1           | 12.5                       | 3.20     | 9 400                                                 | 2303 2RS    |  |
| 20                          | 47  | 18  | 1           | 9.90                       | 2.60     | 9 100                                                 | 2204 2RS    |  |
|                             | 52  | 21  | 1.1         | 12.4                       | 3.35     | 8 300                                                 | 2304 2RS    |  |
| 25                          | 52  | 18  | 1           | 12.1                       | 3.30     | 7 900                                                 | 2205 2RS    |  |
|                             | 62  | 24  | 1.1         | 17.6                       | 4.95     | 6 600                                                 | 2305 2RS    |  |
| 30                          | 62  | 20  | 1           | 15.6                       | 4.65     | 6 600                                                 | 2206 2RS    |  |
|                             | 72  | 27  | 1.1         | 21.3                       | 6.30     | 5 800                                                 | 2306 2RS    |  |
| 35                          | 72  | 23  | 1.1         | 15.8                       | 5.10     | 5 700                                                 | 2207 2RS    |  |
|                             | 80  | 31  | 1.5         | 25.1                       | 7.85     | 5 100                                                 | 2307 2RS    |  |
| 40                          | 80  | 23  | 1.1         | 19.2                       | 6.50     | 5 000                                                 | 2208 2RS    |  |
|                             | 90  | 33  | 1.5         | 29.5                       | 9.70     | 4 600                                                 | 2308 2RS    |  |
| 45                          | 85  | 23  | 1.1         | 21.8                       | 7.35     | 4 600                                                 | 2209 2RS    |  |
|                             | 100 | 36  | 1.5         | 38.1                       | 12.7     | 4 100                                                 | 2309 2RS    |  |
| 50                          | 90  | 23  | 1.1         | 22.7                       | 8.10     | 4 300                                                 | 2210 2RS    |  |
|                             | 110 | 40  | 2           | 43.4                       | 14.1     | 3 700                                                 | 2310 2RS    |  |
| 55                          | 100 | 25  | 1.5         | 26.8                       | 10.0     | 3 900                                                 | 2211 2RS    |  |
|                             | 120 | 43  | 2           | 51.3                       | 17.9     | 3 400                                                 | 2311 2RS    |  |

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



|  | Mounting dimensions<br>(mm)  |                              |                              |                              | Con-<br>stant<br><br><i>e</i> | Axial load factors    |                       |                       | (Refer.)<br><b>Mass</b><br>(kg) |
|--|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|-----------------------|-----------------------|---------------------------------|
|  | <i>d<sub>a</sub></i><br>min. | <i>d<sub>a</sub></i><br>max. | <i>D<sub>a</sub></i><br>max. | <i>r<sub>a</sub></i><br>max. |                               | <i>Y</i> <sub>1</sub> | <i>Y</i> <sub>2</sub> | <i>Y</i> <sub>0</sub> |                                 |
|  | 13.7<br>15                   | 13.7<br>15.7                 | 25<br>30                     | 0.6<br>0.6                   | 0.33<br>0.34                  | 1.92<br>1.85          | 2.97<br>2.87          | 2.01<br>1.94          | 0.047<br>0.085                  |
|  | 15.2<br>16.8                 | 15.2<br>16.8                 | 27<br>31                     | 0.6<br>1                     | 0.33<br>0.36                  | 1.89<br>1.77          | 2.93<br>2.74          | 1.98<br>1.86          | 0.053<br>0.095                  |
|  | 18.0<br>20.0                 | 18.0<br>20.0                 | 30<br>36                     | 0.6<br>1                     | 0.33<br>0.34                  | 1.90<br>1.86          | 2.95<br>2.88          | 2.00<br>1.95          | 0.060<br>0.114                  |
|  | 20.2<br>22.1                 | 20.2<br>22.1                 | 35<br>41                     | 0.6<br>1                     | 0.31<br>0.33                  | 2.03<br>1.92          | 3.14<br>2.97          | 2.12<br>2.01          | 0.088<br>0.158                  |
|  | 24.1<br>26.2                 | 24.1<br>26.2                 | 41<br>45                     | 1<br>1                       | 0.29<br>0.30                  | 2.16<br>2.12          | 3.35<br>3.28          | 2.27<br>2.22          | 0.140<br>0.209                  |
|  | 29.4<br>32                   | 29.4<br>33.9                 | 46<br>55                     | 1<br>1                       | 0.28<br>0.27                  | 2.28<br>2.31          | 3.52<br>3.57          | 2.39<br>2.42          | 0.163<br>0.335                  |
|  | 35.5<br>37                   | 35.5<br>37.8                 | 56<br>65                     | 1<br>1                       | 0.25<br>0.26                  | 2.55<br>2.40          | 3.94<br>3.72          | 2.67<br>2.52          | 0.260<br>0.500                  |
|  | 40.9<br>43.5                 | 40.9<br>45.0                 | 65<br>71.5                   | 1<br>1.5                     | 0.23<br>0.25                  | 2.71<br>2.48          | 4.20<br>3.84          | 2.84<br>2.60          | 0.403<br>0.675                  |
|  | 47<br>48.5                   | 48.1<br>49.6                 | 73<br>81.5                   | 1<br>1.5                     | 0.22<br>0.25                  | 2.83<br>2.57          | 4.38<br>3.98          | 2.97<br>2.69          | 0.505<br>0.925                  |
|  | 52<br>53.5                   | 52.4<br>56.6                 | 78<br>91.5                   | 1<br>1.5                     | 0.21<br>0.25                  | 2.94<br>2.56          | 4.56<br>3.95          | 3.09<br>2.68          | 0.545<br>1.23                   |
|  | 56.5<br>60                   | 56.5<br>62.5                 | 83<br>100                    | 1<br>2                       | 0.21<br>0.23                  | 3.07<br>2.70          | 4.76<br>4.17          | 3.22<br>2.83          | 0.590<br>1.64                   |
|  | 63.5<br>65                   | 63.5<br>65                   | 91.5<br>110                  | 1.5<br>2                     | 0.20<br>0.23                  | 3.19<br>2.70          | 4.94<br>4.18          | 3.34<br>2.83          | 0.810<br>2.10                   |