



## Technical information



### Your current product variant

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | BE           | With lose center lip ring         |
| Bore type                 | Z            | Cylindrical                       |
| Cage                      | JPB          | Sheet metal cage                  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication             | Standard     |                                   |

### Main Dimensions & Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 280 mm      | Bore diameter                     |
| D           | 460 mm      | Outside diameter                  |
| B           | 146 mm      | Width                             |
| $C_r$       | 2.750.000 N | Basic dynamic load rating, radial |
| $C_{0r}$    | 4.200.000 N | Basic static load rating, radial  |
| $C_{ur}$    | 325.000 N   | Fatigue load limit, radial        |
| $n_G$       | 1.420 1/min | Limiting speed                    |
| $n_{gr}$    | 790 1/min   | Reference speed                   |
| $\approx m$ | 93,5 kg     | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 300 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 440 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm   | Maximum recess radius                |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 5 mm     | Minimum chamfer dimension          |
| $D_1$      | 403,4 mm | Bore diameter outer ring           |
| $d_2$      | 321,4 mm | Raceway diameter of the inner ring |
| $d_s$      | 9,5 mm   | Diameter lubrication hole          |
| $n_s$      | 17,7 mm  | Width of lubricating groove        |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,31 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,21 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,29 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,16 | Static axial load factor                                                             |



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing
-  Static angular error and misalignment
-  Dynamic angular error and misalignment