



## Technical information



### Your current product variant

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E1           | Without central rip               |
| Bore type                 | Z            | Cylindrical                       |
| Cage                      | TVPB         | Plastic cage                      |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication facility    | Standard     |                                   |



### Main Dimensions & Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 180 mm      | Bore diameter                     |
| D        | 280 mm      | Outside diameter                  |
| B        | 74 mm       | Width                             |
| $C_r$    | 1.040.000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 1.450.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 173.000 N   | Fatigue load limit, radial        |
| $n_G$    | 2.600 1/min | Limiting speed                    |
| $n_{gr}$ | 1.760 1/min | Reference speed                   |
| $m$      | 15,669 kg   | Weight                            |



### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 190,2 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 269,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm   | Maximum recess radius                |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 2,1 mm   | Minimum chamfer dimension          |
| $D_1$      | 254,3 mm | Bore diameter outer ring           |
| $d_2$      | 201,8 mm | Raceway diameter of the inner ring |
| $d_s$      | 8 mm     | Diameter lubrication hole          |
| $n_s$      | 15 mm    | Width of lubricating groove        |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,23 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,9  | Dynamic axial load factor                                                            |
| $Y_2$ | 4,31 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,83 | 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



Static angular error and misalignment



Dynamic angular error and misalignment