



## Technical information



### Your current product variant

|  |              |                                   |
|--|--------------|-----------------------------------|
| Design   | E1           | Without central rip               |
| Bore type                                      | Z            | Cylindrical                       |
| Cage   | JPA          | Sheet metal cage                  |
| Radial internal clearance                      | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication facility                         | Standard     |                                   |
| Spherical roller bearing for vibrating screens | T41A         | For vibrating screens             |

### Main Dimensions & Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 85 mm       | Bore diameter                     |
| D        | 180 mm      | Outside diameter                  |
| B        | 60 mm       | Width                             |
| $C_r$    | 540.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 560.000 N   | Basic static load rating, radial  |
| $C_{ur}$ | 51.000 N    | Fatigue load limit, radial        |
| $n_G$    | 4.100 1/min | Limiting speed                    |
| $n_{gr}$ | 3.200 1/min | Reference speed                   |
| $m$      | 7,214 kg    | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 99 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 166 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,5 mm | Maximum recess radius                |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 3 mm     | Minimum chamfer dimension          |
| $D_1$      | 154,2 mm | Bore diameter outer ring           |
| $d_2$      | 104,4 mm | Raceway diameter of the inner ring |
| $d_s$      | 4,8 mm   | Diameter lubrication hole          |
| $n_s$      | 9,5 mm   | Width of lubricating groove        |

### Temperature range

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

### Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0,33 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,04 | Dynamic axial load factor  |
| $Y_2$ | 3,04 | Dynamic axial load factor  |
| $Y_0$ | 2    | 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