

**FAG****29334-E1-XL**

Axial spherical roller bearing

Axial spherical roller bearing 293..-E1-XL, no flanging ring

**X-life**

## Technical information



## Your current product variant

|   |          |                  |
|---|----------|------------------|
| Heat treatment                              | Standard | Standard         |
| Locating feature, housing washer            | Without  |                  |
| Cage  | JP       | Sheet metal cage |
| Handling thread holes                       | Without  |                  |
| Constricted width and inclination variation | Standard |                  |
| Test certificate                            | Without  |                  |

## Main Dimensions &amp; Performance Data

|                 |             |                                  |
|-----------------|-------------|----------------------------------|
| d               | 170 mm      | Bore diameter                    |
| D               | 280 mm      | Outside diameter                 |
| T               | 67 mm       | Height                           |
| C <sub>a</sub>  | 1.230.000 N | Basic dynamic load rating, axial |
| C <sub>0a</sub> | 3.500.000 N | Basic static load rating, axial  |
| C <sub>ua</sub> | 455.000 N   | Fatigue load limit, axial        |
| n <sub>G</sub>  | 2.390 1/min | Limiting speed                   |
| n <sub>gr</sub> | 1.260 1/min | Reference speed                  |
| ≈m              | 14,363 kg   | Weight                           |



### Mounting dimensions

|               |        |   |
|---------------|--------|---|
| $d_{a \min}$  | 220 mm | Minimum diameter shaft shoulder             |
| $D_{a \max}$  | 247 mm | Maximum diameter of housing shoulder        |
| $D_{b \min}$  | 284 mm | Minimum bore diameter housing               |
| $d_{b \max}$  | 188 mm | Maximum distance sleeve                     |
| $d_{b1 \max}$ | 180 mm | Maximum chamfer diameter of distance sleeve |
| $r_{a \max}$  | 2,5 mm | Maximum recess radius                       |
|               | 30 °   | Angle of chamfer of the distance sleeve     |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $D_1$      | 215 mm   | Bore diameter housing washer |
| $d_1$      | 255,7 mm | Rip diameter shaft washer    |
| $r_{\min}$ | 3 mm     | Minimum chamfer dimension    |
| $T_1$      | 30,5 mm  | Height of the housing washer |
| $T_3$      | 42,2 mm  | Height of the shaft washer   |
| $T_5$      | 60,5 mm  | Distance shaft washer - cage |
| A          | 96 mm    | Distance of the center point |

### Temperature range

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



### Characteristics

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Radial load



Axial load in one direction



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment