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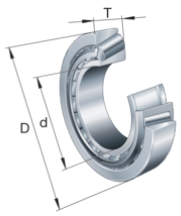



FAG

# 31317-XL

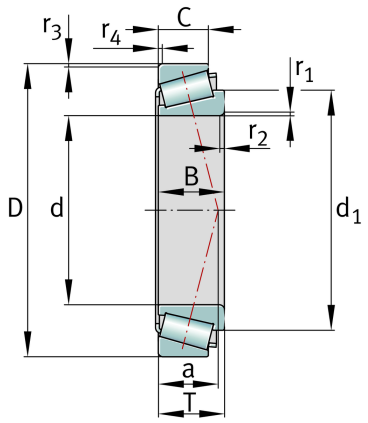
Tapered roller bearing

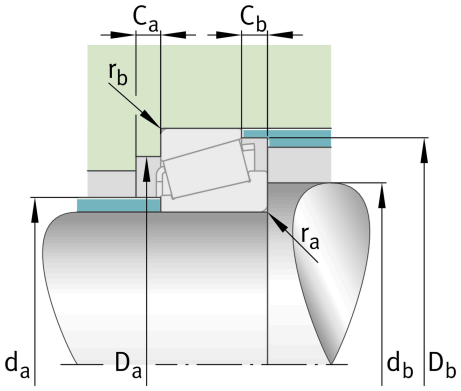
Schaeffler ID:
0927124360000

Tapered roller bearings 313, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

## Technical information




### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 85 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 41 mm | Width, inner ring |
| C | 28 mm | Width, outer ring |
| T | 44.5 mm | Width, total |
| $C_r$ | 300,000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 300,000 N | Basic static load rating, radial |
| $C_{ur}$ | 43,500 N | Fatigue load limit, radial |
| $n_G$ | 4,700 1/min | Limiting speed |
| $n_{\vartheta r}$ | 3,000 1/min | Thermal speed rating |
| | 4.682 kg | Weight |

### Dimensions

| | | |
|---|---|---|
| $r_{1, 2\ min}$ | 4 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4\ min}$ | 3 mm | Minimum chamfer dimension of outer ring back face |
| a | 56 mm | Distance between the apexes of the pressure cones |
| $d_1$ | 131.8 mm | Guidance rib diameter of inner ring |

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## Mounting dimensions

| | | |
|---|---|---|
| $d_{a\ max}$ | 103 mm | Maximum diameter of shaft shoulder |
| $d_{b\ min}$ | 99 mm | Minimum diameter of shaft shoulder |
| $D_{a\ min}$ | 143 mm | Minimum diameter of housing shoulder |
| $D_{a\ max}$ | 166 mm | Maximum diameter of housing shoulder |
| $D_{b\ min}$ | 169 mm | Minimum diameter of housing shoulder |
| $C_{a\ min}$ | 6 mm | Minimum axial space |
| $C_{b\ min}$ | 16.5 mm | Minimum axial space |
| $r_{a\ max}$ | 4 mm | Maximum fillet radius of shaft |
| $r_{b\ max}$ | 3 mm | Maximum fillet radius of housing |

## Calculation factors

| | | |
|---|---|---|
| | T7GB085 | Comparative designation to ISO 10317 and ISO 355 |
| e | 0.83 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y | 0.73 | Dynamic axial load factor |
| $Y_0$ | 0.4 | Static axial load factor |

## Temperature range

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