

FAG

## 31317-XL

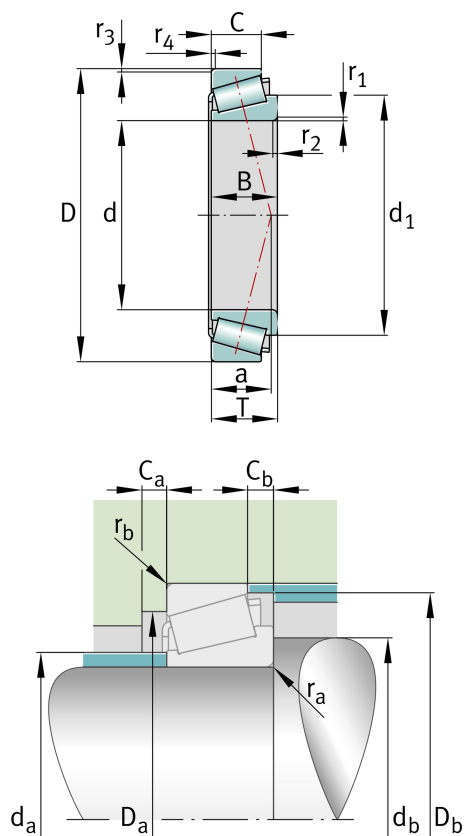
Tapered roller bearing

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 &amp; 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
$n_G$	4.300 1/min	Limiting speed
$n_{gr}$	3.000 1/min	Thermal speed rating
	4,682 kg	Weight

## Dimensions

	T7GB085	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \text{ min}}$	4 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	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

**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**

e	0,83	Limiting value of $F_a/F_r$ 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.