

FAG

**32016-X-XL**

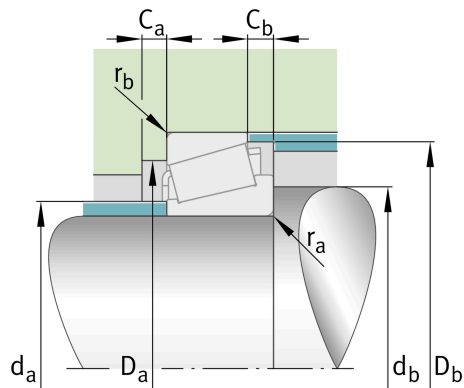
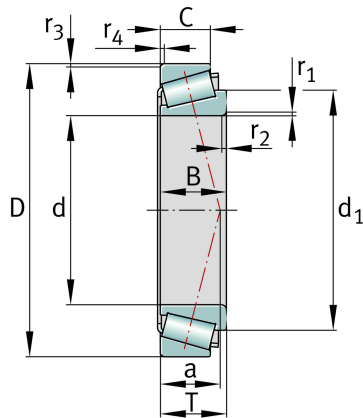
Tapered roller bearing

Schaeffler ID:  
0829933780000

Tapered roller bearings 320, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

## Technical information

**Main Dimensions & Performance Data**

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	29 mm	Width, inner ring
C	22 mm	Width, outer ring
T	29 mm	Width, total
$C_r$	162,000 N	Basic dynamic load rating, radial
$C_{0r}$	212,000 N	Basic static load rating, radial
$C_{ur}$	34,500 N	Fatigue load limit, radial
$n_G$	6,600 1/min	Limiting speed
$n_{gr}$	3,450 1/min	Thermal speed rating
	1.284 kg	Weight

**Dimensions**

$r_{1,2 \text{ min}}$	1.5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	1.5 mm	Minimum chamfer dimension of outer ring back face
a	27 mm	Distance between the apexes of the pressure cones
$d_1$	104.1 mm	Guidance rib diameter of inner ring

### Mounting dimensions

$d_{a \max}$	89 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	87 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	112 mm	Minimum diameter of housing shoulder
$D_{a \max}$	117 mm	Maximum diameter of housing shoulder
$D_{b \min}$	120 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	7 mm	Minimum axial space
$r_{a \max}$	1.5 mm	Maximum fillet radius of shaft
$r_{b \max}$	1.5 mm	Maximum fillet radius of housing

### Calculation factors

	T3CC080	Comparative designation to ISO 10317 and ISO 355
$e$	0.42	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y$	1.42	Dynamic axial load factor
$Y_0$	0.78	Static axial load factor

### Temperature range

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