

FAG

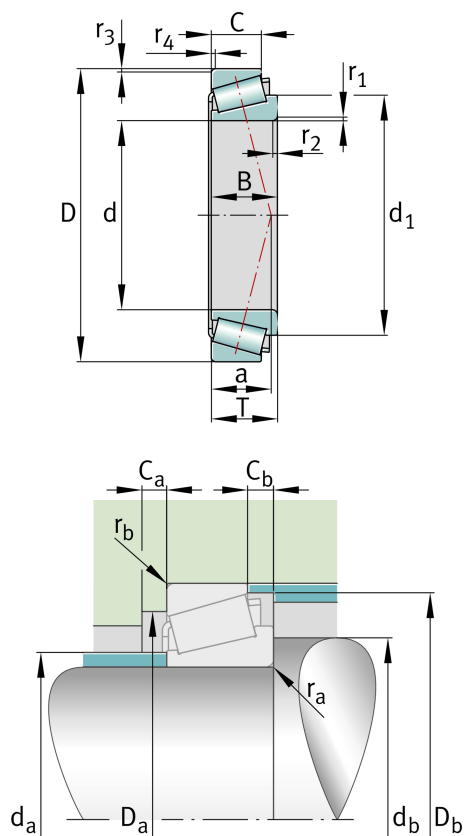
31312-XL

Tapered roller bearing

Schaeffler ID:
0927228300000Tapered 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	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width, inner ring
C	22 mm	Width, outer ring
T	33,5 mm	Width, total
C_r	173.000 N	Basic dynamic load rating, radial
C_{0r}	169.000 N	Basic static load rating, radial
C_{ur}	26.000 N	Fatigue load limit, radial
n_G	6.000 1/min	Limiting speed
n_{gr}	3.800 1/min	Thermal speed rating
	1,937 kg	Weight

Dimensions

	T7FB060	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \min}$	3 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \min}$	2,5 mm	Minimum chamfer dimension of outer ring back face
a	41 mm	Distance between the apexes of the pressure cones
d_1	96,2 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	73 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	72 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	103 mm	Minimum diameter of housing shoulder
$D_{a \max}$	118 mm	Maximum diameter of housing shoulder
$D_{b \min}$	123 mm	Minimum diameter of housing shoulder
$C_{a \min}$	5 mm	Minimum axial space
$C_{b \min}$	11,5 mm	Minimum axial space
$r_{a \max}$	3 mm	Maximum fillet radius of shaft
$r_{b \max}$	2,5 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.