



FAG

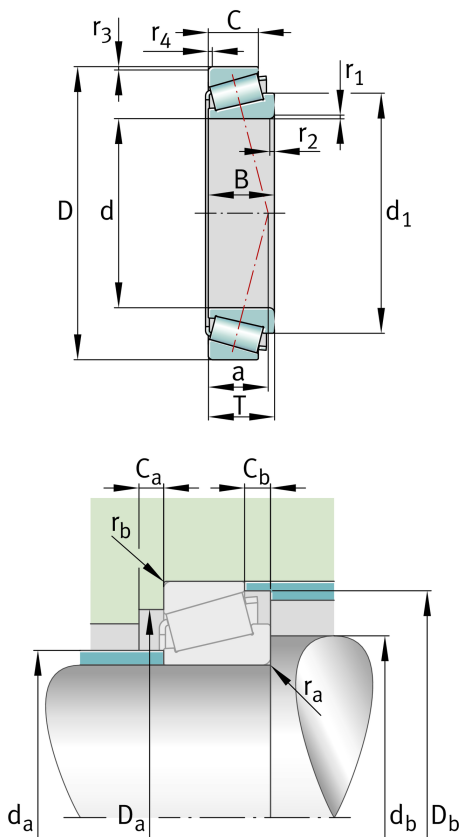
31310-XL

Tapered roller bearing

Schaeffler ID:
0933393990000Tapered roller bearings 313, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

X-life

Technical information



Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.
	1,24 kg	Weight

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width, inner ring
C	19 mm	Width, outer ring
T	29,25 mm	Width, total
C_r	131.000 N	Basic dynamic load rating, radial
C_{0r}	125.000 N	Basic static load rating, radial
C_{ur}	18.800 N	Fatigue load limit, radial
n_G	7.100 1/min	Limiting speed
n_{gr}	4.300 1/min	Thermal speed rating

Dimensions

$r_{1,2 \min}$	2,5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \min}$	2 mm	Minimum chamfer dimension of outer ring back face
a	35 mm	Distance between the apexes of the pressure cones
d_1	81,7 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	62 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	60 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	87 mm	Minimum diameter of housing shoulder
$D_{a \max}$	100 mm	Maximum diameter of housing shoulder
$D_{b \min}$	104 mm	Minimum diameter of housing shoulder
$C_{a \min}$	4 mm	Minimum axial space
$C_{b \min}$	10 mm	Minimum axial space
$r_{a \max}$	2,5 mm	Maximum fillet radius of shaft
$r_{b \max}$	2 mm	Maximum fillet radius of housing

Calculation factors

	T7FB050	Comparative designation to ISO 10317 and ISO 355
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