

FAG

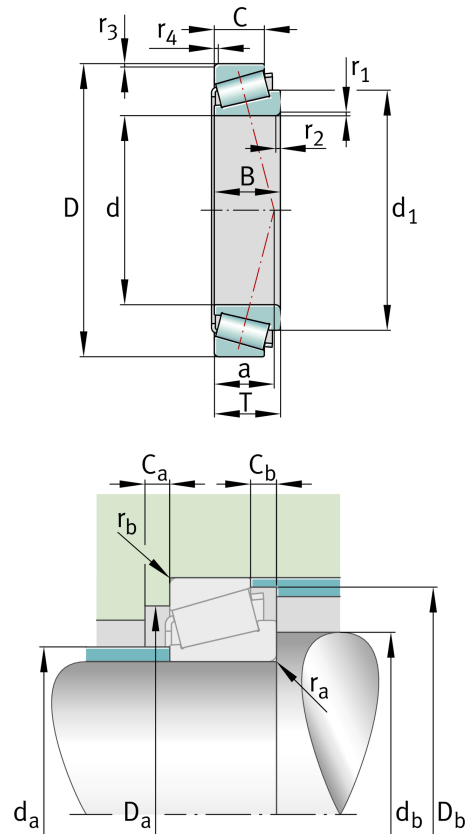
★ 33118

Tapered roller bearing

Schaeffler ID:
0167137880000Tapered roller bearings 331, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

★ Preferred product

Technical information



Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	150 mm	Outside diameter
B	45 mm	Width, inner ring
C	35 mm	Width, outer ring
T	45 mm	Width, total
C_r	265.000 N	Basic dynamic load rating, radial
C_{0r}	420.000 N	Basic static load rating, radial
C_{ur}	52.000 N	Fatigue load limit, radial
n_G	4.450 1/min	Limiting speed
n_{gr}	2.800 1/min	Thermal speed rating
	3,147 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	2,5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	2 mm	Minimum chamfer dimension of outer ring back face
a	36 mm	Distance between the apexes of the pressure cones
d_1	122 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \text{ max}}$	100 mm	Maximum diameter of shaft shoulder
$d_{b \text{ min}}$	100 mm	Minimum diameter of shaft shoulder
$D_{a \text{ min}}$	130 mm	Minimum diameter of housing shoulder
$D_{a \text{ max}}$	140 mm	Maximum diameter of housing shoulder
$D_{b \text{ min}}$	144 mm	Minimum diameter of housing shoulder
$C_{a \text{ min}}$	7 mm	Minimum axial space
$C_{b \text{ min}}$	10 mm	Minimum axial space
$r_{a \text{ max}}$	2,5 mm	Maximum fillet radius of shaft
$r_{b \text{ max}}$	2 mm	Maximum fillet radius of housing

Temperature range

e	0,4	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
T _{min}	-30 °C	Operating temperature min.
Y	1,51	Dynamic axial load factor
T _{max}	120 °C	Operating temperature max.
Y ₀	0,83	Static axial load factor

Additional information

T3DE090	Comparative designation to ISO 10317 and ISO 355
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