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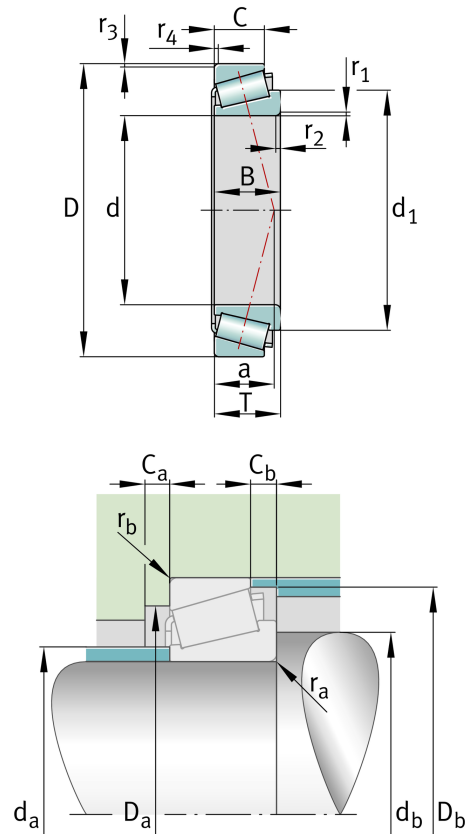
★ 33110

Tapered roller bearing

Schaeffler ID:  
0167137290000Tapered roller bearings 331, main  
dimensions to DIN ISO 355 / DIN 720,  
separable, adjusted or in pairs

★ Preferred product

## Technical information



## Main Dimensions &amp; Performance Data

d	50 mm	Bore diameter
D	85 mm	Outside diameter
B	26 mm	Width, inner ring
C	20 mm	Width, outer ring
T	26 mm	Width, total
$C_r$	86.000 N	Basic dynamic load rating, radial
$C_{0r}$	122.000 N	Basic static load rating, radial
$C_{ur}$	15.500 N	Fatigue load limit, radial
$n_G$	8.200 1/min	Limiting speed
$n_{gr}$	4.600 1/min	Thermal speed rating
	0,598 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	20 mm	Distance between the apexes of the pressure cones
$d_1$	69,1 mm	Guidance rib diameter of inner ring

## Mounting dimensions

$d_{a \text{ max}}$	56 mm	Maximum diameter of shaft shoulder
$d_{b \text{ min}}$	57 mm	Minimum diameter of shaft shoulder
$D_{a \text{ min}}$	74 mm	Minimum diameter of housing shoulder
$D_{a \text{ max}}$	78 mm	Maximum diameter of housing shoulder
$D_{b \text{ min}}$	82 mm	Minimum diameter of housing shoulder
$C_{a \text{ min}}$	4 mm	Minimum axial space
$C_{b \text{ min}}$	6 mm	Minimum axial space
$r_{a \text{ max}}$	1,5 mm	Maximum fillet radius of shaft
$r_{b \text{ max}}$	1,5 mm	Maximum fillet radius of housing

### Temperature range

e	0,41	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
T <sub>min</sub>	-30 °C	Operating temperature min.
Y	1,46	Dynamic axial load factor
T <sub>max</sub>	120 °C	Operating temperature max.
Y <sub>0</sub>	0,8	Static axial load factor

### Additional information

T3CE050	Comparative designation to ISO 10317 and ISO 355
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