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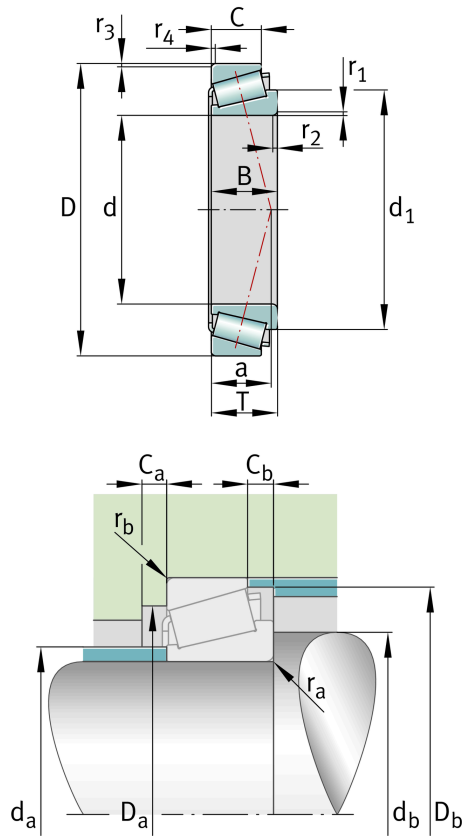
30320-A

Tapered roller bearing

Schaeffler ID:
0167110330000

Tapered roller bearings 303, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	100,00 mm	Bore diameter
D	215,00 mm	Outside diameter
B	47,00 mm	Width, inner ring
C	39,00 mm	Width, outer ring
T	51,50 mm	Width, total
C_r	410.000,00 N	Basic dynamic load rating, radial
C_{0r}	500.000,00 N	Basic static load rating, radial
C_{ur}	64.000,00 N	Fatigue load limit, radial
n_G	3.400,00 1/min	Limiting speed
n_{gr}	2.750,00 1/min	Thermal speed rating
	8,16 kg	Weight

Mounting dimensions

$d_{a \max}$	127,00 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	114,00 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	201,00 mm	Maximum diameter of housing shoulder
$C_{a \min}$	6,00 mm	Minimum axial space
$C_{b \min}$	12,50 mm	Minimum axial space
$r_{a \max}$	4,00 mm	Maximum fillet radius of shaft

Dimensions

$r_{1,2 \min}$	4,00 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \min}$	3,00 mm	Minimum chamfer dimension of outer ring back face
a	42,00 mm	Distance between the apexes of the pressure cones
d_1	151,00 mm	Guidance rib diameter of inner ring

Temperature range

T_{\min}	-30,00 °C	Operating temperature min.
T_{\max}	120,00 °C	Operating temperature max.

Calculation factors

e	0,35	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,74	Dynamic axial load factor
Y ₀	0,96	Static axial load factor

Additional information

T2GB100	Comparative designation to ISO 10317 and ISO 355
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