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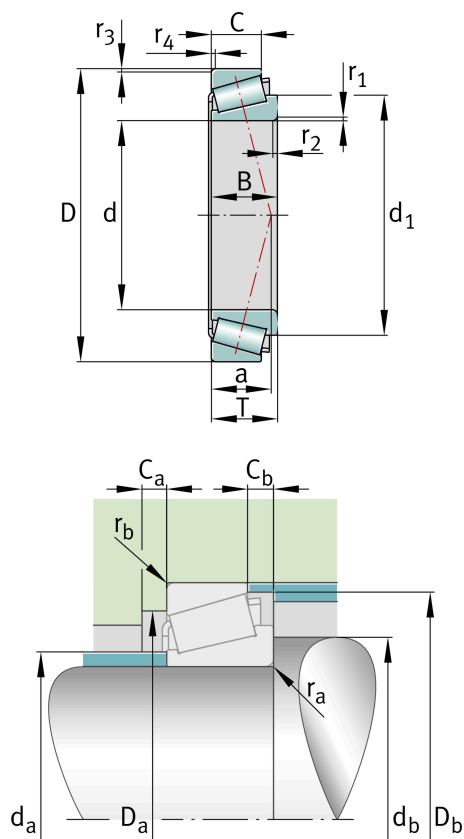
32024-X

Tapered roller bearing

Schaeffler ID:
0167118150000

Tapered roller bearings 320, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	38 mm	Width, inner ring
C	29 mm	Width, outer ring
T	38 mm	Width, total
C _r	250,000 N	Basic dynamic load rating, radial
C _{0r}	420,000 N	Basic static load rating, radial
C _{ur}	48,500 N	Fatigue load limit, radial
n _G	3,700 1/min	Limiting speed
n _{gr}	2,460 1/min	Thermal speed rating
≈m	3.26 kg	Weight

Mounting dimensions

d _{a max}	131 mm	Maximum diameter of shaft shoulder
d _{b min}	130 mm	Minimum diameter of shaft shoulder
D _{a min}	161 mm	Minimum diameter of housing shoulder
D _{a max}	170 mm	Maximum diameter of housing shoulder
D _{b min}	173 mm	Minimum diameter of housing shoulder
C _{a min}	7 mm	Minimum axial space
C _{b min}	9 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

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	40 mm	Distance between the apexes of the pressure cones
d ₁	151 mm	Guidance rib diameter of inner ring

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.

Calculation factors

e	0.46	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.31	Dynamic axial load factor
Y ₀	0.72	Static axial load factor

Additional information

T4DC120	Comparative designation to ISO 10317 and ISO 355
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