



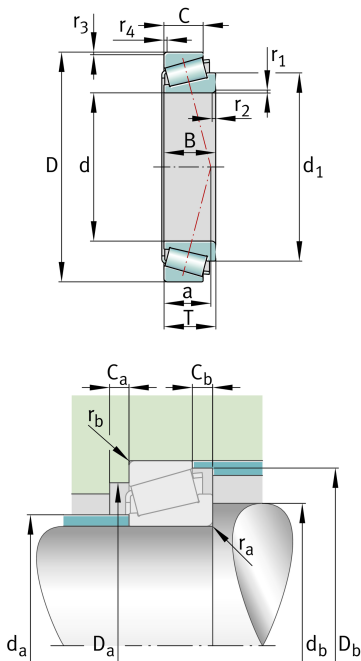
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30221-A

Tapered roller bearing

Tapered roller bearings 302, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Your current product variant

Tolerance class	PN	Normal (ISO 492:2014)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Internal design	Standard	
Quality level	Standard	
Number of rolling element rows	1	Single-row design

Main Dimensions & Performance Data

d	105 mm	Bore diameter
D	190 mm	Outside diameter
B	36 mm	Width, inner ring
C	30 mm	Width, outer ring
T	39 mm	Width, total
C _r	280,000 N	Basic dynamic load rating, radial
C _{0r}	365,000 N	Basic static load rating, radial
C _{ur}	41,000 N	Fatigue load limit, radial
n _G	3,800 1/min	Limiting speed
n _{gr}	2,700 1/min	Thermal speed rating
≈m	4.418 kg	Weight



Mounting dimensions

d _a max	122 mm	Maximum diameter of shaft shoulder
d _b min	117 mm	Minimum diameter of shaft shoulder
D _a min	165 mm	Minimum diameter of housing shoulder
D _a max	178 mm	Maximum diameter of housing shoulder
D _b min	177 mm	Minimum diameter of housing shoulder
C _a min	6 mm	Minimum axial space
C _b min	9 mm	Minimum axial space
r _a max	3 mm	Maximum fillet radius of shaft
r _b max	2.5 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2} min	3 mm	Minimum chamfer dimension of inner ring back face
r _{3, 4} min	2.5 mm	Minimum chamfer dimension of outer ring back face
a	38 mm	Distance between the apexes of the pressure cones
d ₁	143.2 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	0.42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.43	Dynamic axial load factor
Y ₀	0.79	Static axial load factor

Additional information

T3FB105	Comparative designation to ISO 10317 and ISO 355
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Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed