



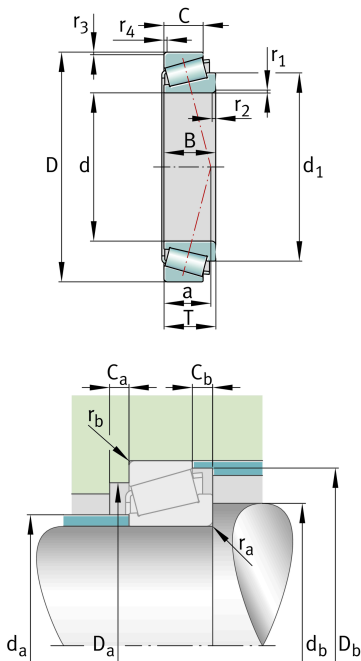
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30220-A

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	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width, inner ring
C	29 mm	Width, outer ring
T	37 mm	Width, total
C <sub>r</sub>	250,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	325,000 N	Basic static load rating, radial
C <sub>ur</sub>	36,000 N	Fatigue load limit, radial
n <sub>G</sub>	4,000 1/min	Limiting speed
n <sub>gr</sub>	2,850 1/min	Thermal speed rating
m	3.711 kg	Weight



Mounting dimensions

d <sub>a</sub> max	116 mm	Maximum diameter of shaft shoulder
d <sub>b</sub> min	112 mm	Minimum diameter of shaft shoulder
D <sub>a</sub> min	157 mm	Minimum diameter of housing shoulder
D <sub>a</sub> max	168 mm	Maximum diameter of housing shoulder
D <sub>b</sub> min	168 mm	Minimum diameter of housing shoulder
C <sub>a</sub> min	5 mm	Minimum axial space
C <sub>b</sub> min	8 mm	Minimum axial space
r <sub>a</sub> max	3 mm	Maximum fillet radius of shaft
r <sub>b</sub> max	2.5 mm	Maximum fillet radius of housing

Dimensions

r <sub>1, 2</sub> min	3 mm	Minimum chamfer dimension of inner ring back face
r <sub>3, 4</sub> min	2.5 mm	Minimum chamfer dimension of outer ring back face
a	36 mm	Distance between the apexes of the pressure cones
d <sub>1</sub>	135.7 mm	Guidance rib diameter of inner ring

Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	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 <sub>0</sub>	0.79	Static axial load factor

Additional information

T3FB100	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