

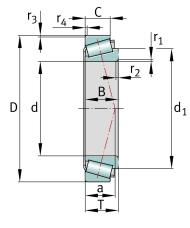
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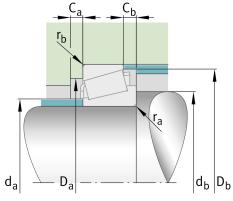
Tapered roller bearing

Schaeffler ID: 0167109750000

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

Technical information





Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
В	35 mm	Width, inner ring
С	30 mm	Width, outer ring
Т	38 mm	Width, total
C _r	223,000 N	Basic dynamic load rating, radial
C _{0r}	260,000 N	Basic static load rating, radial
C ur	31,500 N	Fatigue load limit, radial
n _G	4,900 1/min	Limiting speed
n _{9r}	3,650 1/min	Thermal speed rating
	2.989 kg	Weight

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
а	30 mm	Distance between the apexes of the pressure
		cones
d ₁	106.6 mm	Guidance rib diameter of inner ring

Mounting dimensions

d _{a max}	89 mm	Maximum diameter of shaft shoulder
d _{b min}	82 mm	Minimum diameter of shaft shoulder
D _{a min}	130 mm	Minimum diameter of housing shoulder
D _{a max}	138 mm	Maximum diameter of housing shoulder
D _{b min}	140 mm	Minimum diameter of housing shoulder
C _{a min}	5 mm	Minimum axial space
C _{b min}	8 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

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.



Calculation	n factors		
е	0.35	Limiting value of Fa/Fr for the applicability of	
		diff. Values of factors X and Y	
Υ	1.74	Dynamic axial load factor	
Υ ₀	0.96	Static axial load factor	
Temperature range			
Temperatu	re range		
Temperatu	re range T2GB070	Comparative designation to ISO 10317 and ISO	
Temperatu		Comparative designation to ISO 10317 and ISO 355	
Temperatu			